# UPDATED SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT (SLERA) FOR THE GULFCO MARINE MAINTENANCE SUPERFUND SITE FREEPORT, TEXAS

## PREPARED BY:

Pastor, Behling & Wheeler, LLC 2201 Double Creek Drive Suite 4004 Round Rock, Texas 78664 (512) 671-3434

# TABLE OF CONTENTS

<u>Page</u>

LIST	OF TA	BLES		3	
LIST	OF FI	GURES		4	
LIST	OF PL	ATES		4	
LIST	OF AF	PENDIC	ES	5	
1.0	INT	RODUCT	TION	6	
	1.1	PURP	OSE AND SCOPE	7	
	1.2	SITE S	SETTING AND HISTORY	8	
2.0		SCREENING-LEVEL PROBLEM FORMULATION AND ECOLOGICAL EFFECTS CHARACTERIZATION (STEP 1) 10			
	2.1		RONMENTAL SETTING		
	2.2	NATU	RE AND EXTENT OF POTENTIAL CONTAMINATION	13	
	2.3	POTE	NTIALLY COMPLETE EXPOSURE PATHWAYS AND		
		PREL!	IMINARY CONCEPTUAL SITE MODEL	14	
	2.4	THRE	ATENED AND ENDANGERED SPECIES	14	
	2.5	ASSE	SSMENT AND MEASUREMENT ENDPOINTS	15	
		2.5.1	Terrestrial Assessment Endpoints	15	
		2.5.2	Estuarine Wetland and Aquatic Assessment Endpoints	16	
		2.5.3	1	17	
	2.6	SELECTION OF AND COMPARISON TO ECOLOGICAL			
			HMARKS		
		2.6.1	Soil		
		2.6.2	Sediment		
		2.6.3	Surface Water	21	
3.0			-LEVEL EXPOSURE ESTIMATE AND RISK CALCULATION		
	3.1	POTE	NTIAL RECEPTORS		
			•		
		3.1.2	Estuarine Wetland and Aquatic Receptors		
	3.2	SCREENING-LEVEL EXPOSURE ESTIMATES			
	3.3	TOXICITY REFERENCE VALUES			
	3.4		ENING-LEVEL RISK ESTIMATES		
		3.4.1	South Area Soil		
		3.4.2	North Area Soil		
		3.4.3	Background Area Soil		
		3.4.4	Intracoastal Waterway Sediment		
		3.4.5	Intracoastal Waterway Background Sediment		
		316	North Area Wetlands Sediment	32	

		3.4.7 Pond Sediment	32
		3.4.8 Surface Water	32
4.0	UNC	CERTAINTY ANALYSIS FOR STEPS 1 AND 2	36
	4.1	EXPOSURE ANALYSIS UNCERTAINTY	36
		4.1.1 General Exposure Analysis Uncertainties	36
		4.1.2 Receptor-Specific Uncertainties	38
		4.1.3 Chemical-Specific Uncertainties	38
	4.2		
	4.3	Risk Characterization Uncertainty	40
5.0	SUM	MARY AND CONCLUSIONS OF THE SLERA	42
	5.1		
		5.1.1 Soil and Sediment	42
		5.1.2 Surface Water	
	5.2	SELECTION OF COPECS FOR FURTHER EVALUA	TION 45
	5.3	SCIENTIFIC MANAGEMENT DECISION POINT	
6.0	REF	TERENCES	48

# LIST OF TABLES

<u>Table</u>	<u>Title</u>
1	Exposure Point Concentration (mg/kg) – South Area Surface Soil
2	Exposure Point Concentration (mg/kg) – South Area Soil
3	Exposure Point Concentration (mg/kg) – North Area Surface Soil
4	Exposure Point Concentration (mg/kg) – North Area Soil
5	Exposure Point Concentration (mg/kg) – Background Soil
6	Exposure Point Concentration (mg/kg) – Intracoastal Waterway Sediment
7	Exposure Point Concentration (mg/kg) – Intracoastal Waterway Background Sediment
8	Exposure Point Concentration (mg/kg) – Wetland Sediment
9	Exposure Point Concentration (mg/kg) – Pond Sediment
10	Exposure Point Concentration (mg/L) – Intracoastal Waterway Surface Water (Total)
11	Exposure Point Concentration (mg/L) – Intracoastal Waterway Background Surface Water (Total)
12	Exposure Point Concentration (mg/L) – Wetland Surface Water (Total)
13	Exposure Point Concentration (mg/L) – Pond Surface Water (Total)
14	Exposure Point Concentration (mg/L) – Intracoastal Waterway Surface Water (Dissolved Metals)
15	Exposure Point Concentration (mg/L) – Intracoastal Waterway Background Surface Water (Dissolved Metals)
16	Exposure Point Concentration (mg/L) – Wetland Surface Water (Dissolved Metals)
17	Exposure Point Concentration (mg/L) – Pond Surface Water (Dissolved Metals)
18	Terrestrial Habitat Assessment and Measurement Endpoints

19	Estuarine Wetland and Aquatic Habitat Assessment and Measurement Endpoints
20	Terrestrial Exposure Parameters
21	Estuarine Wetland and Aquatic Exposure Parameters
22	Ecological Hazard Quotients Exceeding One for the South Area
23	Ecological Hazard Quotients Exceeding One for the North Area
24	Ecological Hazard Quotients Exceeding One for the Background Areas
25	Summary of Surface Water Data and Ecological Benchmarks

## LIST OF FIGURES

<u>Figure</u>	<u>Title</u>
1	Site Location Map
2	Site Map
3	Wetland Map
4	Intracoastal Waterway Background Sample Locations
5	Terrestrial Ecosystem Conceptual Site Model
6	Estuarine Ecosystem Conceptual Site Model

## LIST OF PLATES

<u>Plate</u>		<u>Title</u>
	1	Investigation Sample Locations
	2	Zinc Concentrations in Surface Soil and Sediment

# LIST OF APPENDICES

<u>Appendix</u>	<u>Title</u>
A	Pro UCL Output
В	Ecological Risk Calculations for South Area Soil
C	Ecological Risk Calculations for North Area Soil
D	Ecological Risk Calculations for Background Soil
Е	Ecological Risk Calculations for Intracoastal Waterway Sediment
F	Ecological Risk Calculations for Intracoastal Waterway Background Sediment
G	Ecological Risk Calculations for Wetland Sediment
Н	Ecological Risk Calculations for Pond Sediment
I	Ecological Risk Calculations Using LOAELs
J	References for the Appendices

#### 1.0 INTRODUCTION

The United States Environmental Protection Agency (EPA) named the former site of Gulfco Marine Maintenance, Inc. (the Site) in Freeport, Brazoria County, Texas to the National Priorities List (NPL) in May 2003. The EPA issued a modified Unilateral Administrative order (UAO), effective July 29, 2005, which was subsequently amended effective January 31, 2008. The UAO required the Respondents to conduct a Remedial Investigation and Feasibility Study (RI/FS) for the Site. The Statement of Work (SOW) for the RI/FS at the Site, provided as an Attachment to the UAO from the EPA, requires an Ecological Risk Assessment (ERA). The SOW specifies that the Respondents follow EPA's *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments* (EPA, 1997). This guidance document proposes an eight-step approach for conducting a scientifically defensible ERA:

- 1. Screening-Level Problem Formulation and Ecological Effects Evaluation;
- 2. Screening-Level Preliminary Exposure Estimate and Risk Calculation;
- 3. Baseline Risk Assessment Problem Formulation;
- 4. Study Design and Data Quality Objectives;
- 5. Field Verification of Sampling Design;
- 6. Site Investigation and Analysis of Exposure and Effects;
- 7. Risk Characterization; and
- 8. Risk Management.

Briefly, Steps 1 and 2 of the process are scoping phases of the ERA in which existing information is reviewed to preliminarily identify the ecological components that are potentially at risk, the chemicals of potential ecological concern (COPECs), and the transport and exposure pathways that are important to the ERA. This process is conducted using conservative assumptions to avoid underestimating risk or omitting receptors or COPECs, and constitutes the Screening-Level Ecological Risk Assessment (SLERA). Step 3 is the Baseline Problem Formulation that uses the results of the SLERA to identify methods for risk analysis and characterization, resulting in the identification of ERA data needs for the RI/FS. Steps 4 through 7 include formalization of the data needs, data collection, and data analysis for the risk characterization. Risk management activities are the eighth step in the process.

Steps 1 and 2 were performed through the submittal of an initial SLERA based on pre-RI data to EPA on November 17, 2005 as outlined in the SOW. The initial SLERA recommended collecting additional data to better characterize the nature and extent of contamination and potential risks associated with the Site. These data needs were identified in the RI/FS Work Plan (PBW, 2006a), which was approved with modifications by EPA on May 4, 2006 and finalized on May 16, 2006. Data needs were based on the preliminary conceptual site models (CSMs) described in the Work Plan. Identification of COPECs for the baseline ecological risk assessment (BERA), which was one of the primary objectives of the initial SLERA, is based on exceedences of risk-based criteria by maximum soil and sediment concentrations. However, given the limited data available for the Site when the initial SLERA was conducted, eliminating COPECs from further evaluation was not performed.

As discussed at the August 4, 2005 Project Scoping Meeting and provided for in the RI/FS Work Plan, the SLERA and the resulting Scientific Management Decision Point (SMDP) were to be reevaluated after the complete database of soil, sediment, and surface water samples collected during the RI was available. The Nature and Extent Data Report (NEDR) (PBW, 2009) providing these data was submitted to EPA on XXX and was approved by EPA on XXX. This updated SLERA presents a re-evaluation of the November 16, 2005 SLERA based on the data presented in the NEDR.

#### 1.1 PURPOSE AND SCOPE

The purpose and scope of this document is to summarize the analytical data for environmental media sampled during the RI and to conduct an updated SLERA based on those data. The SLERA is a conservative assessment and serves to evaluate the need and, if required, the level of effort necessary to conduct a baseline ecological risk assessment. Per EPA guidance (EPA, 2001), the SLERA provides a general indication of the potential for ecological risk (or lack thereof) and may be conducted for several purposes including: 1) to estimate the likelihood that a particular ecological risk exists; 2) to identify the need for site-specific data collection efforts; or 3) to focus site-specific ecological risk assessments where warranted.

This document contains the following steps and key elements, which are defined in EPA guidance (1997):

#### Step 1

- Description of the Site setting;
- Identification of the preliminary site-related chemicals; and
- Development of the preliminary conceptual site exposure model.

#### Step 2

- Calculation of conservative screening-level exposure and risk;
- Identification of COPECs; and
- Identification of assessment endpoints based on the management goals for the Site.

This report concludes with an updated SMDP, which provides documentation for whether further assessment (i.e., proceeding with the baseline ecological risk assessment) is necessary, and helps guide the next phases of evaluation, if necessary.

#### 1.2 SITE SETTING AND HISTORY

The Site is located northeast of Freeport, Texas in Brazoria County at 906 Marlin Avenue (also referred to as County Road 756). The Site consists of approximately 40 acres within the 100-year coastal floodplain along the north bank of the Intracoastal Waterway between Oyster Creek to the east and the Old Brazos River Channel to the west. Figure 1 provides a map of the site vicinity, while Plate 1 provides a detailed site map and shows site features and sampling locations.

From 1971 through 1999, at least three different owners used the Site as a barge cleaning facility. During the 1960s, the Site was used for occasional welding but there were no on-site structures. Beginning in approximately 1971, barges were brought to the facility and cleaned of waste oils, caustics and organic chemicals, with these products stored in on-site tanks and later sold. Sandblasting and other barge repair/refurbishing activities also occurred on the Site. At times during the operation, wash waters were stored either on a floating barge, in on-site storage tanks, and/or in surface impoundments on Lot 56 of the Site (Figure 2). The surface impoundments were closed under the Texas Water Commission's (TCEQ predecessor agency) direction in 1982.

Marlin Avenue divides the Site into two areas. For the purposes of this report, it is assumed that Marlin Avenue runs due west to east. The property to the north of Marlin Avenue (the North Area) consists of undeveloped land and the closed impoundments, while the property south of

Marlin Avenue (the South Area) was developed for industrial uses with multiple structures, a dry dock, sand blasting areas, an aboveground storage tank (AST) tank farm that is situated on a concrete pad with a berm, and two barge slips connected to the Intracoastal Waterway.

The South Area is zoned as "W-3, Waterfront Heavy" by the City of Freeport. This designation provides for commercial and industrial land use, primarily port, harbor, or marine-related activities. The North Area is zoned as "M-2, Heavy Manufacturing." Restrictive covenants prohibiting any land use other than commercial/industrial have been filed for all parcels within both the North and South Areas.

Adjacent property to the north, west and east of North Area is unused and undeveloped. Adjacent property to the east of the South Area is currently used for industrial purposes while the property directly to the west of the property is currently vacant and previously served as a commercial marina. The Intracoastal Waterway bounds the Site to the south. Residential areas are located south of Marlin Avenue, approximately 300 feet west of the Site, and 1,000 feet east of the Site.

# 2.0 SCREENING-LEVEL PROBLEM FORMULATION AND ECOLOGICAL EFFECTS CHARACTERIZATION (STEP 1)

Problem formulation establishes the goals, breadth and focus of the SLERA by describing the physical features of the site, the communities of potential receptors present at the site, the selection of assessment and measurement endpoints, and potential exposure pathways. This information serves as the basis for the conceptual site model, which is used to focus the remaining steps of the SLERA.

#### 2.1 ENVIRONMENTAL SETTING

The Site is located between Galveston and Matagorda Bays and is situated along approximately 1200 feet (ft.) of shoreline on the Intracoastal Waterway. The Intracoastal Waterway is a coastal shipping canal that extends from Port Isabel to West Orange on the Texas Gulf Coast and a vital corridor for the shipment of bulk materials and chemicals. The Texas Department of Transportation estimates that \$35.5 billion worth of goods was moved over the waterway in 1986. In 1980, it was estimated that almost two million recreational boat trips used the Intracoastal Waterway and the commercial fishing industry uses the waterway for access to the Gulf of Mexico (TSHA, 2005).

The South Area includes approximately 20 acres of upland that were created from dredged material. Prior to construction of the Intracoastal Waterway, this area was most likely coastal wetlands. The North Area, excluding the capped impoundments and access roads, is considered estuarine wetland. The upland areas (approximately five acres in size) support a variety of herbaceous vegetation that is tolerant of drier soil conditions.

There are two ponds on the North Area, east of the impoundments. The larger of the two ponds is the Fresh Water Pond while the smaller pond is the Small Pond. It should be noted, however, that based on field measurements of specific conductance and salinity, the water in the Fresh Water Pond is brackish while water in the Small Pond is less brackish but would not be classified as fresh water. The Fresh Water Pond appears to be a borrow pit where soil and sediment were removed when constructing/capping the lagoon and water depth is generally 4 to 4.5 feet deep. The Small Pond is a very shallow depression that tends to dry out during summer months and periods of drought; the water depth was approximately 0.2 feet when sampled in July 2006 and

nearly dry when sampled in June 2008. Based on field observations, the wetland in the North Area is tidally connected to Oyster Creek and the Intracoastal Waterway through a natural swale (draining northeast).

Figure 3 depicts wetlands areas in the Site vicinity. Wetlands are the transitional zones between uplands and aquatic habitats and usually include elements of both. The wetlands at the Site are typical of irregularly flooded tidal marshes on the Texas Gulf Coast. The lower areas in the northern half of the property are dominated by obligate and facultative wetland vegetation such as saltwort (*Batis maritima*), sea-oxeye daisy (*Borrichia frutescens*), shoregrass (*Monanthocloe littoralis*), Carolina wolf berry (*Lycium caroliniaum*), spike sedge (*Eleocharis sp.*), and glasswort (*Salicornia bigelovii*). Higher ground near the road supports facultative wetland vegetation such as eastern bacchari (*Baccharis halimifolia*), sumpweed (*Iva frutescens*), and wiregrass (*Spartina patens*). Near the road there are several shallow depressions that apparently collect and hold enough freshwater to allow homogenous stands of saltmarsh bulrush (*Schoenoplectus robustus*) to develop.

According to the United States Department of Agriculture (USDA) County Soils Maps (USDA, 1981), surface soils south of Marlin Avenue are classified as Surfside clays, and soils north of the road are classified as Velasco clays. Both soils are listed on the state and federal soils lists as hydric soils. The Velasco series consists of very deep, nearly level, very poorly drained saline soils. These soils formed in thick recent clayey sediments near the mouth of major rivers and streams draining into the Gulf of Mexico. They occur on level to slightly depressed areas near sea level and are saturated most of the year. Slope is less than one percent. The Surfside series consists of very deep, very poorly drained, saline soils that formed in recent clayey coastal sediments. They are saturated most of the year, and are on level to depressed areas near sea level with a slope less than one percent. It should be noted, however, that during drought periods, much of the wetlands north of the Site is dry and desiccated with standing water confined to the drainage areas.

The South Area contains some small areas of undisturbed terrestrial or upland habitat and resident wildlife is likely limited. Shorebirds have constructed nests on some of the vertical structures at the Site. Much of the South Area is covered with concrete slabs associated with former structures or site operations.

The North Area supports wildlife that would be common in a Texas coastal marsh. Fiddler crabs (*Uca rapax*) are likely the most abundant crustacean in the North Area. Other crustaceans found at the Site were fiddler crabs (*Uca panacea*), and hermit crabs (*Clibanarius vittatus*). The most common gastropod is the marsh periwinkle (*Littorina irrorata*). The Site is also used by a variety of shorebirds. Birds observed at the Site include great blue heron (*Ardea herodias*), great egret (*Casmerodius albus*), snowy egret (*Egretta thula*), green heron (*Butorides striatus*), white ibis (*Eudocimus albus*), glossy ibis (*Plegadis falcinellus*), and willets (*Catoptrophorus semipalmatus*). The Site provides suitable habitat for rails, sora, and gallinules and moorhens. The Site is also used by a variety of small mammals, rodents, and reptiles.

Other than gross disturbances in the wetlands area due to impoundment cap and other man-made upland terrain, the North wetlands is area is functionally and visually identical to the adjacent wetlands area. Likewise, field notes taken during sediment sampling indicated consistent sediment descriptions between areas where compounds were measured at concentrations greater than their screening levels and/or estimates of risk show a potential for adverse effects were not noted and areas with no screening level exceedances. While a benthic community survey has not been completed for the Site or at sampling locations with screening level exceedances, there were no observable differences in the benthic community structure or abundance when compared to other areas in the wetlands.

The Intracoastal Waterway supports barge traffic and other boating activities. The area near the Site is regularly dredged and, as noted by the United States Fish and Wildlife Service (USFWS), shoreline habitat is limited (USFWS, 2005a). There is a small amount of intertidal emergent marsh in the upper end of each of the barge slips. Sand and silt has accumulated in the ends of the slips and is supporting small stands of gulf cordgrass (*Spartina alterniflora*). Sheetpile and concrete bulkheads protect the remainder of the shoreline. The bulkheads provide habitat for oysters (*Crassostrea virginica*), barnacles (*Balanus improvisus*), sea anemones (*Bunodosoma cavernata*), limpets and sponges.

Fishing is known to occur on and near the Site. Red drum (*Sciaenops ocellatus*), black drum (*Pogonias cromis*), spotted seatrout (*Cynoscion nebulosus*), southern flounder (*Paralichthys lethostigma*) and others are reportedly caught in the area. It should be noted that, during the fish sampling conducted for the human health fish ingestion pathway risk assessment, red drum were not caught (using nets) as frequently as other species, presumably because of a lack of habit and

prey items to keep them near the Site (see discussion in NEDR (PBW, 2009)). Recreational and commercial fishermen collect blue crabs (*Callinectes sapidus*) from waterways near the Site. The Texas Department of State Health Services has banned the collection of oysters from this area due to biological hazards and they have issued a consumption advisory for king mackerel for the entire Gulf Coast due to mercury levels (TDSHS, 2005).

#### 2.2 NATURE AND EXTENT OF POTENTIAL CONTAMINATION

Data related to the nature and extent of potential contamination in ecologically-relevant media (eg., soil, sediment, and surface water) at the Site were obtained as part of the RI and, as noted previously, are discussed in the NEDR (PBW, 2009). Unless otherwise noted, the samples were analyzed for the full suite of analytes as specified in the approved Work Plan (PBW, 2006a). Plate 1 and Figure 4 provide sample locations for these samples while Tables 1 through 17 summarize the analytical data.

Eighty-three surface soil samples and 83 subsurface soil samples (0 to 0.5 ft below ground surface (bgs) for the surface samples and 0.5 ft to 4 ft bgs for the subsurface samples) were collected in the South Area while 18 surface soil samples and 18 subsurface soil samples were collected in the North Area. Two additional surface soil samples were collected near the former transformer shed at the South Area and analyzed for polychlorinated biphenyls (PCBs). Ten background soil samples were collected within the approved background area approximately 2,000 feet east of the Site near the east end of Marlin Avenue.

Sixteen sediment samples were collected from the Intracoastal Waterway in front of the Site while nine background sediment samples were collected from the Intracoastal Waterway east of the Site, and across the canal. One additional sediment sample was collected from the Intracoastal Waterway near the Site and analyzed for DDT. Forty-nine sediment samples were collected in the North Area wetlands. Ten additional sediment samples were collected from the North Area wetlands and analyzed for DDT; five of these samples were also analyzed for zinc. A total of eight sediment samples were collected from the two ponds located in the North Area.

Four surface water samples were collected in the Intracoastal Waterway in front of the Site while four surface water samples were collected from the background surface water area – the Intracoastal Waterway east of the Site, and across the canal. Four surface water samples were

collected in the wetlands drainage areas north of Marlin Avenue and a total of six surface water samples were collected from the two ponds located in the North Area. Chemical analyses of theses surface water samples included both total and dissolved concentrations of metals.

# 2.3 POTENTIALLY COMPLETE EXPOSURE PATHWAYS AND PRELIMINARY CONCEPTUAL SITE MODEL

Identification of potentially complete exposure pathways is used to evaluate the exposure potential as well as the risk of direct effects on ecosystem components. In order for an exposure pathway to be considered complete, it must meet all of the following four criteria (EPA, 1997):

- A source of the contaminant must be present or must have been present in the past.
- A mechanism for transport of the contaminant from the source must be present.
- A potential point of contact between the receptor and the contaminant must be available.
- A route of exposure from the contact point to the receptor must be present.

Exposure pathways can only be considered complete if all of these criteria are met. If one or more of the criteria are not met, there is no mechanism for exposure of the receptor to the contaminant. Potentially complete pathways used in the SLERA are shown in Figures 5 and 6 for the terrestrial and estuarine ecosystems, respectively.

Anecdotal evidence suggests that releases from the impoundments may have occurred, prior to their closure, as well as direct discharge of wastes into the Intracoastal Waterway during barge cleaning. In general, biota can be exposed to chemical stressors through direct exposure to abiotic media, or through ingestion of forage or prey that have accumulated contaminants. Exposure routes are the mechanisms by which a chemical may enter a receptor's body. Possible exposure routes include 1) absorption across external body surfaces such as cell membranes, skin, integument, or cuticle from the air, soil, water, or sediment; and 2) ingestion of food and incidental ingestion of soil, sediment, or water along with food. Absorption is especially important for microbes, plants, and aquatic animals.

#### 2.4 THREATENED AND ENDANGERED SPECIES

The US Fish and Wildlife Service (USFWS) was consulted (USFWS, 2005b) and information obtained from the USFWS and Texas Parks and Wildlife Department (TPWD) regarding Threatened and Endangered Species. According to USFWS (USFWS, 2005c), Threatened and Endangered Species for Brazoria County include: bald eagle (*Haliaeetus leucocephalus*), brown pelican (*Pelecanus occidentalis*), green sea turtle (*Chelonia mydas*), hawksbill sea turtle (*Eretmochelys imbricate*), Kemp's ridley sea turtle (*Lepidochelys kempii*), leatherback sea turtle (*Dermochelys coriacea*), loggerhead sea turtle (*Caretta caretta*), piping plover (*Circus melodus*), and whooping crane (*Grus americana*). According to TPWD (TPWD, 2005), Threatened and Endangered Species for Brazoria County include: bald eagle (*Haliaeetus leucocephalus*), black rail (*Laterallus jamaicensis*), eastern brown pelican (*Pelecanus occidentalis occidentalis*), interior least tern (*Sterna antillarum athalassos*), piping plover (*Circus melodus*), reddish egret (*Falco rufescens*), swallow-tailed kite (*Elanoides forficatus*), white-faced ibis (*Plegadis chihi*), wood stork (*Mycteria americana*), and corkwood (*Leitneria floridana*). None of these species have been noted at the Site but they are known to live in or on, feed in or on, or migrate through the Texas Gulf Coast and estuarine wetlands.

#### 2.5 ASSESSMENT AND MEASUREMENT ENDPOINTS

Assessment endpoints are explicit expressions of the ecological resource to be protected (EPA, 1997). Identification of assessment endpoints is necessary to focus the SLERA on more sensitive and ecologically relevant receptors rather than attempting to evaluate risks to all potentially affected ecological receptors. Assessment and measurement endpoints are discussed in relation to the risk question and testable hypotheses for each habitat and receptor group in Tables 18 and 19 (terrestrial and estuarine wetland/aquatic, respectively).

#### 2.5.1 Terrestrial Assessment Endpoints

The terrestrial habitat associated with the Site includes the entire South Area and a small area of land adjacent to Marlin Avenue and near the former impoundments in the North Area. Biota serve as a food source for food chain receptors. The environmental value for this area is related to its ability to support plant communities, soil microbes/detritivores and wildlife. As indicated on Figure 5 and described in Table 18, the assessment endpoints for this area include:

Vegetation survival, growth, and reproduction are values to be preserved in the terrestrial
ecosystem. As food, plants provide an important pathway for energy and nutrient
transfer from the soil to herbivores and omnivores as well as invertebrates. Plants also
provide critical habitat for terrestrial animals.

- Detritivore survival, growth, and reproduction and function (as a decomposer) are ecological values to be preserved in a terrestrial ecosystem because they provide a mechanism for the physical breakdown of detritus for microbial decomposition (remineralization), which is a vital function.
- Mammalian and avian herbivore and omnivore survival, growth, and reproduction are
  ecological values to be preserved in a terrestrial ecosystem because they are critical
  components of local food webs in most habitat types. In addition, small mammal and
  avian receptors can be important in the dispersal of seeds and the control of insect
  populations.
- Mammalian, reptilian, and avian carnivore survival, growth, and reproduction are values
  to be preserved in the terrestrial ecosystem because they provide food to other carnivores,
  omnivores, scavengers, and microbial decomposers. They also affect the abundance,
  reproduction, and recruitment of lower trophic levels, such a vertebrate herbivores and
  omnivores through predation.

#### 2.5.2 Estuarine Wetland and Aquatic Assessment Endpoints

The estuarine wetland habitat for the Site extends over the majority of the North Area while the Intracoastal Waterway (i.e., aquatic habitat) is south of the Site. Wetlands are particularly important habitat because they often act to filter water prior to it going into another water body, they are important nurseries for fish, crab, and shrimp, and they act as natural detention areas to prevent flooding. The environmental value for these areas is related to its ability to support wetland plant communities, microbes/benthos/detritivores and wildlife. As indicated in Figure 6 and described in Table 19, the assessment endpoints for these areas include:

Wetland vegetation survival, growth, and reproduction are values to be preserved in the
estuarine wetland ecosystem. As food, plants provide an important pathway for energy
and nutrient transfer from the soil to herbivores and omnivores as well as invertebrates.
 Plants also provide critical habitat for vertebrates and invertebrates.

• Benthos survival, growth, and reproduction are values to be preserved in estuarine ecosystems because these organisms provide a critical pathway for energy transfer from detritus and attached algae to other omnivorous organisms (e.g., polychaetes and crabs) and carnivorous organisms (e.g., black drum and sandpipers), as well as integrating and transferring the energy and nutrients from lower trophic levels to higher trophic levels. The most important service provided by benthic detritivores is the physical breakdown of organic detritus to facilitate microbial decomposition.

- Zooplankton survival, growth, and reproduction are values to be preserved in estuarine
  ecosystems. Zooplankton provide a food source for energy transfer through the water
  column-based pathway from phytoplankton to filter feeding and planktivorous organisms
  (e.g., finfish, shrimp, clams, worms, and oysters).
- Herbivorous and omnivorous fish and shellfish survival, growth, and reproduction are
  values to be preserved in estuarine ecosystems because they are critical components of
  the food web.
- Vertebrate carnivore (i.e., fish, fish-eating, and invertebrate-eating birds) survival, growth, and reproduction are values to be preserved in estuarine ecosystems. Vertebrates provide food for other carnivores and omnivores and affect species composition, recruitment, and abundance of lower trophic level organisms.

Given that the Intracoastal Waterway is a deep, high-energy environment (i.e., dredged regularly) and light penetration is poor due to the high turbidity, submerged aquatic vegetation is not likely to thrive in this area and, as such, is not an ecological resource to be protected as part of this assessment.

#### 2.5.3 Measurement Endpoints

The measurement endpoints for the Site and the Intracoastal Waterway are the measurements of spatial distribution of chemical concentrations in soil and sediment to assess exposure concentrations for potentially exposed receptors. Maximum concentrations of chemicals measured in environmental media were compared to ecological benchmarks for the purposes of the screening-level problem formulation and ecological effects characterization (Step 1) of the SLERA.

#### 2.6 SELECTION OF AND COMPARISON TO ECOLOGICAL BENCHMARKS

This section describes the ecological benchmarks used to evaluate the data initially, and provides a summary of the comparison between site data and the benchmarks. The benchmarks were chosen to conservatively represent the assessment endpoints since they are generally protective of the most sensitive endpoint for a variety of species. This was done as an initial screening in the SLERA process given the large number of analytes, media and receptors analyzed for as part of the RI/FS and evaluated in the SLERA. It should be noted that any chemical considered to be bioaccumulative by the TCEQ (as defined in Table 3-1 of their ecological guidance document (TCEQ, 2006)) was retained for quantitative evaluation in Section 3.0 if it was detected in at least one sample, even if it was reported below a screening criteria or if there was not a screening criteria. This approach was conservatively taken to ensure that food chain effects were considered for bioaccumulative compounds. In addition, polycyclic aromatic hydrocarbons (PAHs) were evaluated as individual compounds, as a total concentration, and grouped as highmolecular weight (HPAH) or low-molecular weight (LPAH) as defined by TCEQ in Box 3-6 of their eco risk guidance (TNRCC, 2001).

#### 2.6.1 **Soil**

Soil sample data were compared with EPA and TCEQ ecological soil screening values contained in Tables 1 through 5. The EPA soil screening values were obtained from EPA's website at <a href="https://www.epa.gov/ecotox/ecossl/">www.epa.gov/ecotox/ecossl/</a> while the TCEQ values were obtained from Table 3-4 of TCEQ, 2006. The screening value listed is the lowest of the values provided by each Agency for plants, soil invertebrates, avians, and mammals (as indicated with the notation of "p", "i", "a", or "m", respectively).

**South Area.** Tables 1 and 2 provide a summary of the data for South Area soil samples. Only compounds with measured detections, including "J" flagged (or estimated) data, are listed in these tables. Table 1 contains only surface soil (0 to 0.5 ft bgs) data while Table 2 provides data for both surface and subsurface samples (0.5 ft to 4 ft bgs). This distinction was made to account for the different soil horizons that the different receptors may be exposed. For example, it was assumed that incidental ingestion of soil for the American robin would only occur with the 0 to 0.5 ft bgs soil whereas an earthworm may reasonably be exposed to soil below 0.5 ft bgs as well. At least one sample contained 4,4'-DDT, antimony, arsenic, barium, boron, cadmium, chromium,

cobalt, copper, dieldrin, lead, lithium, manganese, mercury, molybdenum, nickel, strontium, titanium, vanadium, zinc, or HPAHs at a concentration above its ecological benchmark. Although not reported in any South Area soil sample at a concentration above an ecological benchmark, 4,4'-DDD, 4,4'-DDE, Aroclor-1254, gamma-Chlordane, endrin (aldehyde and ketone) were detected in at least one South Area soil sample and are considered bioaccumulative in soil. These compounds, as well as those compounds with at least one sample concentration exceeding a benchmark, were quantitatively evaluated further in the SLERA as described in Section 3.0.

North Area. Tables 3 and 4 provide a summary of the data for North Area soil samples. Only compounds with measured detections, including "J" flagged (or estimated) data, are listed in these tables. Table 3 contains only surface soil data while Table 4 provides data for both surface (0 to 9.5 ft bgs) and subsurface samples (0.5 ft to 4 ft bgs). Again, this distinction was made to account for the different soil horizons that the different receptors may be exposed. At least one sample contained antimony, barium, boron, cadmium, chromium, lead, lithium, manganese, molybdenum, vanadium, zinc, or HPAHs at a concentration above its ecological benchmark. Although not reported in any North Area soil sample at a concentration above an ecological benchmark, copper, endrin, endrin ketone, mercury, nickel, Aroclor-1254, 4,4'-DDE, and 4,4'-DDT were detected in at least one North Area soil sample and are considered bioaccumulative in soil. These compounds, as well as those compounds with measurements exceeding a benchmark, were quantitatively evaluated further in the SLERA as described in Section 3.0.

**Background Soils.** Table 5 provides a summary of the data for background soil samples (all surface samples). Only compounds with measured detections, including "J" flagged (or estimated) data, are listed in the table. At least one background sample contained antimony, barium, chromium, lead, lithium, manganese, zinc, or HPAHs at a concentration above its ecological benchmark. Although not reported in any background soil sample at a concentration above the ecological benchmark, cadmium, copper, and mercury were detected in at least one background soil sample and are considered bioaccumulative in soil. These compounds, as well as those compounds with measurements exceeding a benchmark, were quantitatively evaluated further in the SLERA as described in Section 3. It should be noted that boron, strontium, titanium, and vanadium were not analyzed for in the background soils.

#### 2.6.2 Sediment

Sediment sample data were compared with EPA and TCEQ ecological screening values contained in Tables 6 through 9. The sediment screening values were the lower of the benchmark criterion obtained from EPA's ECO Update re: Ecotox Thresholds (EPA, 1996) and the TCEQ's ecological benchmarks listed in Table 3-4 of TCEQ, 2006. The hierarchy for the benchmarks from the Ecotox Thresholds was marine sediment quality criteria, sediment quality benchmark, and effects range low value.

Intracoastal Waterway. Table 6 provides a summary of the data for sediment samples collected in the Intracoastal Waterway adjacent to the Site. Only compounds with measured detections, including "J" flagged (or estimated) data are listed in the table. At least one sample contained 4,4'-DDT, benzo(a)pyrene dibenz(a,h)anthracene, pyrene, or total PAHs at a concentration above its ecological benchmark. Although not reported in any Intracoastal Waterway sediment sample at a concentration above an ecological benchmark, copper, gamma-Chlordane, hexachlorobenzene, mercury, nickel, and zinc were detected in at least one sediment sample and are considered bioaccumulative in sediment. These compounds, as well as those compounds with measurements exceeding a benchmark, were quantitatively evaluated further in the SLERA as described in Section 3.0.

Intracoastal Waterway Background. Table 7 provides a summary of the data for sediment samples collected in the Intracoastal Waterway background area. Only compounds with measured detections, including "J" flagged (or estimated) data, are listed in the table. At least one sample contained arsenic or nickel at a concentration above its ecological benchmark. Although not reported in any Intracoastal Waterway background sample at a concentration above an ecological benchmark, copper, 4,4'-DDT, mercury, and zinc were detected in at least one sediment sample and are considered bioaccumulative in sediment. These compounds, as well as those compounds with measurements exceeding a benchmark, were quantitatively evaluated further in the SLERA as described in Section 3.0.

**Wetlands.** Table 8 provides a summary of the data for sediment samples collected in the wetlands area north of Marlin Avenue. Only compounds with measured detections, including "J" flagged (or estimated) data, are listed in the table. At least one sample contained 2-methylnaphthalene, 4,4'-DDT, acenaphthylene, arsenic, benzo(a)anthracene, benzo(a)pyrene,

chrysene, copper, dibenz(a,h)anthracene, endosulfan sulfate, fluoranthene, gamma-chlordane, lead, nickel, phenanthrene, zinc, LPAHs, HPAHs, or total PAHs at a concentration above its ecological benchmark. Although not reported in any wetlands sediment sample at a concentration above an ecological benchmark, cadmium, 4,4'-DDT, endrin (aldehyde and ketone), mercury, and selenium were detected in at least one sediment sample and are considered bioaccumulative in sediment. These compounds, as well as those compounds with measurements exceeding a benchmark, were quantitatively evaluated further in the SLERA as described in Section 3.0.

**Ponds.** Table 9 provides a summary of the data for sediment samples collected in the ponds north of Marlin Avenue. Only compounds with measured detections, including "J" flagged (or estimated) data, are listed in the table. At least one sample contained 4,4'-DDT or zinc at a concentration above its ecological benchmark. Although not reported in any pond sediment sample at a concentration above an ecological benchmark, cadmium, copper, 4,4'-DDD, mercury, and nickel were detected in at least one sediment sample and are considered bioaccumulative in sediment. These compounds, as well as those compounds with measurements exceeding a benchmark, were quantitatively evaluated further in the SLERA as described in Section 3.0.

#### 2.6.3 Surface Water

Surface water samples were compared with TCEQ ecological screening criteria, which were obtained from TCEQ's ecological benchmarks listed in Table 3-2 of TCEQ, 2006. If a TCEQ value was not available, and a value was available in the Screening Quick Reference Tables (or SQuiRTs; Bachman, 2008)), that value was used as the screening criteria. If the benchmark was listed for dissolved concentrations, it was not compared to the total concentration data. It should be noted that dissolved concentrations only apply to metals.

Intracoastal Waterway. Tables 10 and 14 summarize the analytical data for total and dissolved concentrations, respectively, for surface water samples collected from the Intracoastal Waterway adjacent to the Site. Boron concentrations measured in four of four dissolved surface water samples collected exceeded the ecological benchmark available in SQuiRTs (Bachman, 2008). Selenium, which is considered bioaccumulative in water, was measured in four of four surface water samples collected from the Intracoastal Waterway but at concentrations below the benchmark.

Intracoastal Waterway Background. Tables 11 and 15 summarize the analytical data for total and dissolved concentrations, respectively, for surface water samples collected in the Intracoastal Waterway background area, east of the Site and across the Intracoastal Waterway. 4,4'-DDT and dissolved silver were detected in at least one sample in excess of their respective benchmark values. 4,4'-DDD and 4,4'-DDT were detected in two of five and one of five surface water samples collected at the background locations and are considered bioaccumulative although it should be noted that 4,4'-DDD was not measured at a concentration greater than the benchmark. Boron concentrations measured in four of four dissolved surface water samples collected exceeded the ecological benchmark available in SQuiRTs (Bachman, 2008), while iron concentrations measured in one of four dissolved surface water samples collected in the background area for the Intracoastal Waterway exceeded the benchmark.

Wetlands. Tables 12 and 16 summarize the analytical data for total and dissolved concentrations, respectively, for surface water samples collected in the wetlands drainage areas north of Marlin Avenue. Acrolein and dissolved boron, copper, and manganese were detected in at least one sample in excess of their respective benchmark. Mercury, which is considered bioaccumulative, was detected (total concentrations only) in two of four surface water samples but below a benchmark for a dissolved concentration.

**Ponds.** Tables 13 and 17 summarize the analytical data for total and dissolved concentrations, respectively, for surface water samples collected in the two ponds located in the North Area. Dissolved silver was detected in all six pond surface water samples in excess of its benchmark value. Boron and manganese were measured in at least one dissolved surface water sample at a concentration greater than the benchmark (Bachman, 2008). Thallium, which is considered bioaccumulative, was measured in all three dissolved surface water samples collected from the Small Pond. Selenium, which is also considered bioaccumulative in water, was measured in one total surface water sample collected from the Small Pond. No measured concentrations of selenium or thallium were measured in excess of their benchmarks.

# 3.0 SCREENING-LEVEL EXPOSURE ESTIMATE AND RISK CALCULATION (STEP 2)

The screening-level exposure and risk calculation description presented in this section of the SLERA corresponds to Step 2 of EPA guidance (EPA, 1997). Step 2 includes an assessment of potential ecotoxicity of stressors and the result of Step 2 is a decision on whether additional ecological risk evaluation is necessary and/or if data gaps exist.

#### 3.1 POTENTIAL RECEPTORS

Several representative groups of wildlife were identified as receptors of concern (ROCs) for use in the SLERA. Each group of receptors represents a group of species (feeding guild) with similar habitat use and feeding habits that could potentially inhabit either the terrestrial, estuarine wetland, or aquatic habitats at the Site. Representative species groups that may use the habitats at the Site are described briefly below. When several species may be present that could represent the feeding guild for a habitat, the species was chosen as the ROC for that feeding guild based on its habitat affinity and potential for exposure.

#### 3.1.1 Terrestrial Receptors

- <u>Detritivores</u>, <u>Invertebrates and Terrestrial Plants</u>. There are limited terrestrial areas at the Site. The earthworm was chosen to represent detritivores and invertebrates for the terrestrial ecosystem in this area because it is a sensitive organism toxicologically and an important part of the food chain as prey for some first-order carnivores.
- Mammalian Herbivores and Omnivores. Habitat type plays a major role in the presence and abundance of the various species of mammals found at the Site. Of the three major groups of mammalian receptors (predators, ungulates, and rodents) potentially found at the Site, the small mammalian rodents are the most diverse and complex, and are most likely to have the highest area use factor. The habitat most likely does not support an ungulate population because it does not provide protective cover that they prefer although they may graze on some of the terrestrial plants on occasion. The omnivorous deer mouse (*Peromyscus maniculatus*) was selected as the ROC for the various feeding guilds of small mammals at the Site. Dietary composition for the deer mouse, with an assumed

area use factor of 100 percent, is assumed to be an equal mix of terrestrial invertebrates and terrestrial plant tissue in order to assess the potential exposures to a receptor ingesting a general mix of prey types at the Site.

- Mammalian Predators. Carnivores potentially present include omnivores such as the spotted and striped skunks and raccoon as well as the coyote (*Canis latrans*). Fecal evidence of a predator species was observed at the Site. Since some of the COPECs are considered bioaccumulative compounds, assessing risks to an upper trophic level receptor is advisable. Therefore, the coyote (*Canis latrans*) was selected as the ROC for the mammalian carnivore feeding guild as it may feed at the Site on occasion as part of its larger home range. An area use factor of 100 percent was conservatively assumed per EPA, 1997.
- Reptilian Predators. A representative reptilian predator for the Site is the rat snake
   (Elaphe obsolete), which has been observed at the Site. Rat snakes feed primarily on
   small mammals and eggs. An area use factor of 100 percent was conservatively assumed
   per EPA, 1997.
- Avian Herbivores and Omnivores. In general, avian species are influenced by the same types of landscape components as mammals, although vegetation is by far the more important factor. Birds are generally less important than mammals in terrestrial risk assessments because they live in less intimate contact with the soil, are highly mobile, and in many cases are present only seasonally. Most small birds have flexible diets that emphasize specific types of plant or animal material during certain seasons and most species are somewhat opportunistic, feeding on whatever food source is most abundant or particularly nutritious/palatable at a given time. A generalized avian receptor, represented by the American robin (*Turdus migratorius*), was selected to represent the omnivorous feeding guild. An area use factor of 100 percent was conservatively assumed per EPA, 1997.
- <u>Avian Predators</u>. Representative avian predators (raptors) for the Site include the redtailed hawk (*Buteo jamaicensis*) although it has not been observed at the Site. It, however, may use the Site for hunting prey occasionally. They feed primarily on small

rodents, snakes, and lizards although they are opportunistic and will feed on other prey at times. An area use factor of 100 percent was conservatively assumed per EPA, 1997.

#### 3.1.2 Estuarine Wetland and Aquatic Receptors

- Benthos, Zooplankton, and Wetlands Plants. Polychaetes burrow in and ingest sediment and have a greater exposure potential to sediment-bound chemicals that most epibenthos such as shrimp and crab. Polychaetes are likely to be the most abundant class of benthic organisms found in the Intracoastal Waterway and, as such, Capitella capitata was chosen to represent this receptor class.
- Fish and Shellfish. Fiddler crabs (*Uca rapax*) and killifish (*Fundulus grandis*) were chosen to represent herbivorous or omnivorous species in the estuarine wetland and aquatic ecosystems, respectively. Fiddler crabs and their burrows are abundant at the Site. They eat detritus (dead or decomposing plant and animal matter) and serve as a food source for many wetland animals. It was assumed that their area use factor is 100 percent. The killifish was chosen to represent this feeding guild because it is likely to be present in the area of the Site and because it is an omnivorous fish that feeds primarily on organic detritus, small crustaceans, zooplankton, epiphytic algae, and polychaetes. Killifish may inhabit the Site for its entire life cycle; therefore, an area use factor of 100 percent was assumed.
- <u>Carnivorous Fish</u>. Black drum (*Pogonias cranius*) was selected as the first order carnivore ROC because it is present in the Intracoastal Waterway and because it is an omnivorous carnivore that eats shrimp, crabs, small fish, benthic worms and algae. Per EPA, 1997, an area use factor of 100 percent was conservatively assumed. The spotted seatrout (*Cynoscion nebulosus*) was chosen to represent a second order carnivorous fish species because it is present in the Intracoastal Waterway and because adult fish feed almost exclusively on other fish. It was conservatively assumed that the area use factor for the spotted seatrout is 100 percent per EPA, 1997.
- Avian Predators. Sandpipers (*Calidris genus*) were chosen as first order avian predator ROC because they have been observed at the Site. Although not observed at the Site, the green heron (*Butorides striatus*) was chosen as the second order avian predator ROC to

assess food chain impacts. Sandpipers are migratory birds that feed on aquatic insects and larva, marine worms, small crabs, small mollusks, and other invertebrate prey items. An area use factor of 100 percent was conservatively assumed per EPA, 1997. Green herons are migratory birds that feed on small fish invertebrates, insects, frogs, and other small animals. Per EPA, 1997, an area use factor of 100 percent was conservatively assumed for green herons as well.

#### 3.2 SCREENING-LEVEL EXPOSURE ESTIMATES

In the exposure analysis, potential exposure of ecological receptors to COPECs is quantified. There are two basic routes of exposure for the COPECs and receptors at the Site: 1) ingestion both from food and soil/sediment; and 2) direct contact. Quantification of exposure potential for both of these exposure routes requires data on chemical concentrations in environmental media (e.g., soil, sediment, prey items) and ingestion rates or contact information for each receptor and pathway. In addition, body weights, home range size, and other factors must be known for each of the receptors, as well as the chemical and physical properties of the COPECs. Ecological receptors based on an ingestion pathway include birds, crustaceans, mammals, and fish. Receptors evaluated based on direct contact, include earthworms in the terrestrial ecosystem and polychaetes and amphipods in the wetlands/aquatic ecosystem.

Tables 20 and 21 provide exposure parameters for each receptor for terrestrial and estuarine wetland/aquatic receptors, respectively. References for the selected values are included in the tables as well.

Exposures via inhalation or dermal absorption were not evaluated for most receptors because of a lack of appropriate exposure and toxicity data and the uncertainty associated with these pathways (TNRCC, 2001). The exposure of animals to contaminants in soil by dermal contact is likely to be small due to barriers of fur, feathers, and epidermis. Therefore, the SLERA focuses on the ingestion pathways as the primary exposure route for most vertebrates (unless direct contact is specifically noted and assessed).

For most receptors evaluated based on ingestion, exposure is quantified by estimating the daily dose (mg COPEC/kg body weight per day) that the receptor is expected to receive. For second order carnivorous fish, mammals, and birds exposed through ingestion, estimates of exposure are

calculated using dietary concentration rather than daily dose. For the direct contact pathway (i.e., earthworm and polychaetes), the COPEC concentration in soil or sediment was used directly to estimate exposure.

EPA guidance (EPA, 1997) suggests conservatively using maximum concentrations in the SLERA, which is often performed when only limited data sets are available. During the scoping meeting with EPA, it was discussed that a 95% upper confidence limit (UCL) on the average concentration would more appropriately represent the exposure point concentration (EPC) given the extensive characterization and sampling that has been conducted at the Site. The general procedure that is recommended by EPA to estimate a 95% UCL (EPA, 2002) was used as the EPC to represent the upper end of exposure. EPA's ProUCL Version 4 program (EPA, 2007) was used to analyze dataset distribution and calculate average and 95% UCL concentrations. ProUCL calculates various estimates of the 95% UCL of the mean, and then makes a recommendation on which one should be selected as the best UCL estimate. If the average or 95% UCL is greater than the maximum detected concentration, the maximum measured concentration was used as the exposure point concentration for the RME evaluation (EPA, 2002).

Appendix A provides the ProUCL output when there were sufficient samples to run statistics (soil and sediment). It should be noted that for avian receptors, the exposure point concentration was based on surface soil data because it is unlikely that the avian ROC is exposed to subsurface soils given their habitat preferences, activities, and feeding behavior. One-half of the sample detection limit was used for samples without a measurement at or above the sample detection limit. Both averages and 95% UCLs were used in the SLERA to provide a range of exposure point concentrations.

The general equation that will be used for estimating COPEC dose from the soil/sediment and food ingestion pathways is presented below:

For a soil and sediment pathway:

$$Dose_{soil/sediment} = \underline{C_{soil/sediment} \ x \ IR_{soil/sediment} \ x \ AF_{soil/sediment} \ x \ AUF}$$
 
$$BW$$

For a food (dose) pathway:

$$Dose_{food} = \underline{C_{food} \times IR_{food} \times AUF}$$

$$BW$$

Where:

C soil/sediment = chemical concentration in soil/sediment (mg/kg)

C <sub>food</sub> = chemical concentration in food (mg/kg)

IR <sub>soil/sediment</sub> = soil/sediment ingestion rate (kg/day)

 $IR_{food}$  = food ingestion rate (kg/day)

AF soil/sediment = chemical bioavailability factor from soil/sediment

(unitless)

AUF = area-use factor (unitless)

BW = wildlife receptor body weight (kg)

It should be noted that the chemical bioavailability factor for all compounds in both soil and sediment was assumed to be 1 (ie., 100% bioavailable for uptake). COPEC concentrations in food were estimated from soil/sediment concentrations using bioaccumulation factors (BAFs) or biotasediment accumulation factors (BSAFs) with the following equation:

$$C_{\text{food}} = C_{\text{soil/sediment}} \times BAF \text{ (or BSAF if sediment)}$$

For those receptors exposure through both soil or sediment and dietary exposure routes, the dose was assumed to be additive with the equation:

$$Dose_{total} = Dose_{soil/sediment} + Dose_{food}$$

Various literature sources, including the Wildlife Exposure Factors Handbook (EPA, 1993), were reviewed to determine the types of prey ingested by the wildlife receptors and the amounts. It was assumed that the deer mouse has incidental soil ingestion only, while the coyote and the redtailed hawk predominantly have food ingestion with an incidental amount (i.e., 2%) of soil ingestion, and the American robin and rat snake are exposed through both food and soil sources. It was assumed that fiddler crabs, killifish, sandpipers, and black drum are exposed to COPECs

via food and incidental ingestion of sediment while spotted seatrout and green heron are exposed via prey items.

Appendices B through H provide detailed intake (dose) calculations for each media and all receptors. For the purposes of the SLERA, the dose and estimated risks were assumed to be similar for the killifish and black drum due to the similarity in the toxicity reference values used to calculate risk and because they are both omnivores with a varied diet. Since dose is adjusted for body weight, the differences between their food intake and body weight should not mathematically make a difference. In addition, assuming the area use factor for both species is 100% makes the differences between their home ranges negligible for the purposes of the SLERA calculations.

#### 3.3 TOXICITY REFERENCE VALUES

Species-specific toxicity reference values (TRVs) were determined using scientific literature and other available resources with selected benchmarks generally based on measurements of survival growth or reproduction in the laboratory. A TRV was selected from the available scientific literature for each compound using the following criteria (EPA, 1997):

- Doses based on the receptor species selected for evaluation were used preferentially;
   however, if toxicity information is not available for the species, doses for animals within the same class as the receptor species were used.
- Data for reproductive or developmental effects were used preferentially over other
  endpoints. Reproductive and developmental effects represent a more sensitive measure
  of wildlife effects than mortality. Therefore, these effects were chosen in preference to
  the less sensitive mortality endpoint for assessing ecological risk to the ROCs.
- Chronic data were used preferentially to sub-chronic or acute data, and no observable
  adverse effects levels (NOAELs) were used in preference to lowest observable adverse
  effects levels (LOAELs) and effects measurements.

Effects Range Low (ERL) and Effects Range Medium (ERM) values were used as sediment TRVs for benthic receptors. TRVs were not available for each receptor class or for each compound. Where appropriate, surrogate values were used in for some species to species extrapolations and some within some chemical classes (eg., DDT for DDE) for chemicals without

TRVs. Because using surrogate values introduces considerable uncertainty into the risk assessment process, care was taken to only use surrogate values for chemicals with similar chemical structures or toxicities to minimize the uncertainty. The chemicals with no TRVs were discussed in the uncertainty section.

#### 3.4 SCREENING-LEVEL RISK ESTIMATES

The purpose of the risk characterization is to integrate the exposure and ecological effects analyses to determine if ecological receptors at the Site are potentially at risk from chemical exposure. In this section, the dose estimate is compared to the TRV to evaluate the potential for adverse health effects to the ROC using a hazard quotient approach. Hazard quotients (HQs) are calculated to make these comparisons. The HQ is a ration of the estimated exposure concentration to the TRV where:

$$HQ = Dose / TRV$$

If the HQ is less than one, indicating the exposure concentration or dose is less than the TRV, adverse effects are considered highly unlikely. If the HQ is equal to or greater than one, a potential for adverse effects may exist. It should be noted that an HQ greater than one by itself does not indicate the magnitude or effect nor does it provide a measure of potential population-level effects (Menzie et al., 1992), and certainly should be evaluated based on the conservative nature of the assumptions. Because of this issue, HQs are calculated using NOAELs and ERLs initially and if the NOAEL-based HQ exceeds one, the HQ was also calculated using a LOAEL and ERM (when available) to provide a range of results to assist with risk management decisions. HQs were calculated for individual polycyclic aromatic hydrocarbons (PAHs) as well as for total PAHs, low-molecular weight PAHs (LPAHs), and high-molecular weight PAHs (HPAHs). PAHs were classified as LPAH or HPAH according to Box 3-6 of TCEQ guidance (TCEQ, 2001).

Tables 22, 23, and 24 provide a summary of the HQs that exceed one per media, receptor and compound for the South and North Areas and Background Areas, respectively. Appendices B through H provide the complete set of calculations for all compounds, while Appendix I provides the risk calculations using LOAELs for a select group of compounds, media and receptors. A discussion of the results for each compound with a HQ greater than one follows by media.

#### 3.4.1 South Area Soil

As shown in Table 22, the NOAEL-based HQs for 4,4'-DDT, antimony, Aroclor-1254, copper, lead, and zinc exceed one for one or more terrestrial receptors. Zinc is the only compound with a LOAEL-based HQ greater than one for the earthworm receptor (the HQ using the average EPC is 0.86; while the HQ using the RME EPC is 1.52). The zinc LOAEL-based HQs for the deer mouse, coyote, rat snake, American robin, and red-tailed hawk receptors are below one.

#### 3.4.2 North Area Soil

As shown in Table 23, the NOAEL-based HQs for antimony, dieldrin, lead, and zinc exceed one for one or more terrestrial receptors. Zinc is the only compound with a LOAEL-based HQ greater than one for the earthworm receptor (the HQ using the average EPC is 0.45; while the HQ using the RME EPC is 3.32), the deer mouse receptor (the HQ using the average EPC is 0.14; while the HQ using the RME EPC is 1.06), and the American robin receptor (the HQ using the average EPC is 0.19; while the HQ using the RME EPC is 1.42). The zinc NOAEL and LOAEL-based HQs for the coyote, rat snake, and red-tailed hawk receptors are below one.

#### 3.4.3 Background Area Soil

As shown in Table 24, the NOAEL-based HQs for antimony, barium, and zinc exceed one for one or more terrestrial receptors. Barium and zinc have a LOAEL-based HQ greater than one for the earthworm receptor (the HQ using the average EPC for barium is 1.01 and 0.46 for zinc; while the HQs using the RME EPCs for barium and zinc are 1.52 and 1.8, respectively). The barium and zinc LOAEL-based HQs for the deer mouse, coyote, rat snake, American robin, and red-tailed hawk receptors are below one.

## 3.4.4 <u>Intracoastal Waterway Sediment</u>

As shown in Table 22, the ERL-based HQ for 4,4'-DDT, benzo(a)anthracene, dibenz(a,h)anthracene, fluoranthene, fluorene, gamma-chlordane, phenanthrene, pyrene, HPAHs and total PAHs exceed one for the benthic receptor. The ERM-based HQs for the benthic receptor for these compounds were less than one. The only benchmark available for hexachlorobenzene was the Apparent Effects Threshold (AET), and both the average and RME

HQs exceed one for benthic organisms. None of the other NOAEL or LOAEL-based HQs was above one for aquatic or estuarine receptors.

#### 3.4.5 Intracoastal Waterway Background Sediment

As shown in Table 24, none of the NOAEL-based HQs for any compound for any receptor exceeds one. The AET-based HQs for hexachlorobenzene using both the average and RME EPCs exceed one for benthic organisms.

#### 3.4.6 North Area Wetlands Sediment

As shown in Table 23, the ERL-based HQ for many individual PAHs, 4,4'-DDT, endrin aldehyde, gamma-chlordane, LPAH, HPAH, and total PAHs exceed one for the benthic receptor. The AET-based HQs for benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene were 1.11 and 1.28, respectively, for the RME benthic scenario although the HQs for the average scenario were 0.29 and 0.33, respectively. There is not an ERL or ERM for benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene. The ERM-based HQs for dibenz(a,h)anthracene 4.15 for the RME benthic scenario and 0.77 for the average benthic scenario. None of the NOAEL-based HQs exceed one for the aquatic or estuarine receptors.

#### 3.4.7 Pond Sediment

As shown in Table 23, the ERL-based HQ for 4,4'-DDT and zinc exceed one for the benthic receptor while the ERM-based HQs for zinc are 0.81 and 2.44 for the average and RME scenarios, respectively. None of the other compounds measured in pond sediment exceed the ERL-based or ERM-based HQ. None of the LOAEL-based HQs exceed one for the aquatic or estuarine receptors, although NOAEL-based HQs exceed one for copper, nickel, and zinc in the sandpiper and green heron.

#### 3.4.8 Surface Water

As described in Section 2.0, dissolved boron measured in surface water in the Intracoastal Waterway, 4,4'-DDT, and dissolved boron, iron, and silver measured in surface water from the background area of the Intracoastal Waterway, acrolein and dissolved boron, copper, and

manganese measured in surface water from the North Area wetlands, and dissolved boron, manganese, and silver measured in surface water from the ponds located in the North Area exceed their screening level.

A hazard quotient risk approach was not used to evaluate these data given the uncertainty when trying to estimate food chain effects. However, additional evaluation of these compounds, levels measured in surface water at the Site, and other measures of toxicity (ie., the  $LC_{50}$  which represents mortality for 50 percent of the organisms tested under specified conditions) are discussed herein.  $LC_{50}$  data were obtained from EPA's ECOTOX database (EPA, 2009) by compound. Data for studies conducted in marine water were used when available for species that are native to Texas. Only data for tests that were at least 96 hours in duration were used, unless otherwise noted. The lowest  $LC_{50}$  was selected for the most sensitive species (when a difference was observed). When enough data were available, a geometric mean of the dataset was calculated and used for the evaluation.

Additional quantitative evaluation was not conducted for mercury, selenium, or thallium since they were not measured above their respective screening criteria in surface water. Although they are considered bioaccumulative and food chain effects may be of concern, the screening criteria used account for bioaccumulation in their derivation and, as such, comparing site concentrations to these values is adequately protective of food chain effects.

Table 25 summarizes the results of the screening criteria and this risk evaluation. Conclusions of risk based on exceeding screening levels are discussed in more detail in Section 5.0.

**Acrolein.** Acrolein was measured in one of four surface water samples collected in the wetlands area at a concentration of 0.00929 mg/L. There was one  $LC_{50}$  study conducted in saline water and that was a 96-hour study performed with *Cyprinodon variegatus*, or sheepshead minnow, which is a native species found in Texas. Based on  $LC_{50}$  data obtained from EPA's ECOTOX database (EPA, 2009), the  $LC_{50}$  for this species was 0.43 mg/L.

**Boron.** The maximum measured concentrations of dissolved boron in surface water collected from the Intracoastal Waterway, the background area of the Intracoastal Waterway, the wetlands area, and the ponds were 4.99, 4.33, 2.75, and 3.33 mg/L, respectively. Based on LC<sub>50</sub> data obtained from EPA's ECOTOX database (EPA, 2009), the range of LC<sub>50</sub>s for the most sensitive

species was 19 to 290 mg/L, with a geometric mean from the twelve tests of 86.5 mg/L. It should be noted that none of the studies available were conducted in saline water, and the test compound was boric acid. The most sensitive species was *Ictalurus punctatus*, or channel catfish and, while the study was conducted using freshwater under laboratory conditions for 120 hours (or more), this species is native to Texas and can live in brackish water.

**Copper.** The maximum measured concentration of dissolved copper in surface water collected from the wetlands area was 0.011 mg/L. There are numerous  $LC_{50}$  studies for copper in salt water listed on EPA's ECOTOX database (EPA, 2009). Of the several 96-hour tests for species that may be found in Texas, the lowest  $LC_{50}$  was 0.368 mg/L for the *Cyprinodon variegatus*, or sheepshead minnow. The other  $LC_{50}$ s ranged from 0.368 mg/L to as high as 8.4 mg/L for the striped bass (*Morone saxatilis*).

**4,4'-DDT.** DDT was measured in one of four surface water samples collected in the Intracoastal Waterway background area at a concentration of 0.000013 mg/L. There are over 280 LC<sub>50</sub> studies listed on EPA's ECOTOX database (EPA, 2009) for DDT, most of which are freshwater studies or salt water studies conducted for less than a 96-hour duration or non-native species. The 96-hour LC<sub>50</sub>s determined for DDT in saltwater for the Western mosquitofish or *Gambusia affinis*, striped bass or *Morone saxatilis*, and striped killifish or *Fundulus majalis* were 0.00045, 0.00053, or 0.001 mg/L, respectively. All of these species are native to Texas.

**Iron.** Iron was detected in one for four dissolved surface water samples collected in the Intracoastal Waterway background area at a concentration of 0.06 mg/L. Based on data from EPA's ECOTOX database (EPA, 2009), there were no studies in saline water for aquatic species that are native to Texas. Therefore,  $LC_{50}$  studies conducted on *Ictalurus punctatus* or channel catfish, crayfish, *Gambusia affinis* or Western mosquitofish, and *Morone saxatilis* or striped bass were evaluated to determine a representative  $LC_{50}$  for iron. Upon visual inspection of the data for all tests conducted for 96-hours, it appeared that the striped bass was the more sensitive species since the  $LC_{50}$ s were lower by about a factor of two or more when compared to other species. Of the two tests, the  $LC_{50}$  for the lower replicate was 4 mg/L while the higher value was 6 mg/L.

**Manganese.** The maximum measured concentrations of dissolved manganese in surface water collected in the wetlands area and ponds were 0.33 and 1.06 mg/L. According to data obtained from EPA's ECOTOX database (EPA, 2009), the only LC<sub>50</sub> study conducted for manganese or

manganese chloride was a 72-hour test in *Asterias rubens*, or starfish. The  $LC_{50}$  obtained from this study was 50 mg/L while values of 100 and 200 mg/L were obtained for a similar study in starfish but the test durations were less than one day. Manganese chloride  $LC_{50}$ s for crayfish in freshwater ranged from 17 to 51 mg/L for studies of 96-hour or greater duration.

**Silver.** The maximum measured concentrations of dissolved silver in surface water collected from the Intracoastal Waterway background area and the ponds were 0.0058 and 0.0029 mg/L, respectively. All studies that were conducted using saline water used *Cyprinodon variegatus*, or sheepshead minnow, and were of 96 or more hours in duration. Based on LC<sub>50</sub> data obtained from EPA's ECOTOX database (EPA, 2009), the range of LC<sub>50</sub>s was 0.961 to 3.1 mg/L, with a geometric mean from the fourteen tests of 1.45 mg/L. It should be noted that the test compound for these studies was silver chloride. The most sensitive species was *Ictalurus punctatus*, or channel catfish and, while the study was conducted using freshwater under laboratory conditions for 120 hours (or more), this species is native to Texas and can live in brackish water.

# 4.0 UNCERTAINTY ANALYSIS FOR STEPS 1 AND 2

This section describes the uncertainties associated with the methodology and results of the SLERA. Risk assessments (both ecological and human) necessarily require assumptions and extrapolations within each step of the analysis and this lead to uncertainty in predicted risks. These uncertainties are generally the result of limitations in the available scientific data used in the exposure and risk models as well as their applicability to the Site. Accordingly, the key assumptions and uncertainties are thought to have the greatest influence on the ecological risks predicted for the Site and, as such, they are presented with a qualitative description of how the uncertainty may affect the evaluation and conclusions. This provides the risk manager with the appropriate context for understanding the level of confidence with the risk assessment results.

There are two principle sources of uncertainty – those resulting from natural variability and those resulting from data limitations. Both types of uncertainty are discussed as they relate to the three major steps of the SLERA: exposure assessment, effects characterization, and risk characterization.

# 4.1 EXPOSURE ANALYSIS UNCERTAINTY

This section primarily focuses on the uncertainties in the exposure analysis resulting from data limitations. There are three general categories of uncertainty that are discussed in this section: general exposure analysis uncertainties, receptor-specific uncertainties (i.e., uncertainties that are related to the receptors evaluated), and chemical specific uncertainties.

# 4.1.1 General Exposure Analysis Uncertainties

General exposure analysis uncertainties are those components of the exposure analysis that have not been or could not be well characterized for the assessment endpoints evaluated. Due to the conservative nature of the SLERA, however, it is believed that the overall impact of uncertainties related to the exposure analysis result in an overestimate of risk.

Data collected at the Site satisfied the goals described in the Work Plan (PBW, 2006a) and, thus, adequately characterize the Site's nature and extent of contamination. As described in the NEDR (PBW, 2009), hundreds of samples of soil, sediment, and surface water were collected for the

South Area, North Area, Intracoastal Waterway, and background soil, sediment, and surface water locations. Characterization was conducted for the entire Site and continued if a screening level was exceeded.

Overall, the data quality was determined to be of high quality. All data were subjected to a complete validation (per the Project QAPP) and very few of the data for any of the analytes were found to be unusable (ie., "R-flagged"). In instances where data were unusable, the analysis was conducted again and the R-flagged data was unused. Some of the data are qualified (ie., "J-flagged") as estimated because the measured concentration is above the laboratory detection limit but below the quantitation limit and/or due to minor quality control deficiencies. According to the *Guidance for Data Useability in Risk Assessment (Part A)* (EPA, 1992), data that are qualified as estimated should be used for risk assessment purposes. Data quality will be discussed in greater detail in the RI report.

Because the site characterization was so thorough at the Site and the data of high quality, it is believed that the average and 95% UCL of the mean adequately represent Site concentrations for chronic exposure conditions, such as those assumed in this evaluation, and that little uncertainty was incurred in the assessment due to incomplete site characterization. Organisms with home ranges smaller than the Site such as the earthworm and deer mouse for terrestrial receptors and *capitella capitata* and fiddler crab for aquatic/estuarine receptors may be exposed to a locally higher concentration than the mean or 95% UCL. However, since the assessment endpoint is based on community survival and productivity and not individual survival and productivity, it is acceptable to use summary statistics to represent community risks.

The assumptions regarding ecological exposure on the South Area of the Site pose a highly conservative bias to uncertainty given that it was assumed that wildlife populations use and are exposed to the entire Site, and that these areas provide sufficient cover and/or foraging habitat to support these wildlife populations. The South Area was developed for industrial purposes and lacks the natural vegetative cover characteristic of viable ecological habitat. In many portions of the South Area, ground surface is covered by concrete slabs or the soil has been worked and there is a permeable cover such as gravel and/or oyster shell base that prevent nesting and foraging. It should be noted, however, that there are some grasses and sparse weedy cover than has grown since the operations at the Site have stopped but this is a relatively small area when compared to the approximate 20-acre South Area. The developed and disturbed nature of the habitat at the

South Area was not taken into consideration in the SLERA and, as such, it is very likely that risks are overestimated for all receptors.

The same general uncertainty as described above applies to the risks associated with sediment from the Intracoastal Waterway since the area of the Intracoastal Waterway near the Site does not provide suitable habitat to encourage or keep fish and other ecological receptors at the Site as noted by USFWS (USFWS, 2005a). This fact was noted during the fish sampling program when it took several weeks to catch the required number of fish (27) in the Intracoastal Waterway at the Site using gill nets whereas fish were more plentiful (and thus more readily caught) in the background area that contained a higher quality habitat.

# 4.1.2 Receptor-Specific Uncertainties

Receptor-specific uncertainties include those parameters in the dose equation that have not been directly measured for receptors at the Site. Receptor-specific uncertainties applicable to both terrestrial and aquatic/estuarine receptors include the body weights and food and soil/sediment ingestion rates used to quantify exposure estimates. Often, the incidental soil/sediment ingestion rate was assumed to be a fraction of dietary intake since an alimentary study was not available to describe soil/sediment ingestion. Additionally, dietary fractions of all receptors were based on either literature data or best professional judgment. Many of the receptors evaluated in the SLERA, such as the deer mouse and American robin, have been fairly well studied so this was not considered a major uncertainty.

Per EPA guidance (EPA, 1997), it was assumed that the area use factor for all receptors was 100% which most likely overestimates exposure and risk for the more mobile receptors such as the red-tailed hawk, coyote, black drum, spotted seatrout, sandpiper, and green heron. The conservatism is compounded with receptors that consume prey items since it was assumed that 100% of their prey comes from the Site as well.

# 4.1.3 Chemical-Specific Uncertainties

Chemical-specific uncertainties are those factors that are assumed for specific chemicals and generally relate to fate and transport modeling. These uncertainties should be considered in weighing the importance of the predicted risks for that chemical.

Bioaccumulation factors and biota-sediment accumulation factors were selected from available literature as noted in the toxicity tables provided in the appendices. They were not available for several of the compounds, and often the data available is sparse or of unknown quality. This makes assessing food chain effects in the evaluation difficult and sometimes uncertain. When appropriate, surrogate values for different chemicals and/or different receptors were used to allow for risks to be estimated for higher trophic level receptors. This approach imparts uncertainty into the evaluation although it is difficult to discern whether it leads to an over-estimation or underestimation of potential risks.

Bioavailability was assumed to be 100% per EPA guidance (EPA, 1997) although it is well known that most metals and some organic compounds are less than 100% bioavailable. This assumption leads to an overestimation of risks, which can be significant.

# 4.2 EFFECTS CHARACTERIZATION UNCERTAINTY

This section describes the assumptions inherent to the use of chemical-specific TRVs for chemicals evaluated in the terrestrial and aquatic/estuarine systems and chemical-specific ERLs/ERMs for chemicals evaluated for sediment-dwelling benthic organisms. PAHs in sediment, as discussed prior, were also evaluated as a class (total PAHs) and subclasses (LPAHs and HPAHs).

Most available toxicity data were for standard laboratory animals or domestic animals such as rats, mice, quail, mallards, trout, and fathead minnows. Thus, these animals were used as surrogates to represent the toxicity of chemicals to site-specific receptors. It is unknown how the sensitivities of these surrogate organisms to toxicants compare to the sensitivities of the wildlife receptors evaluated at the Site. Using surrogate TRVs, therefore, may over- or underestimate toxicity and estimated risk to receptors at the Site.

The lack of screening values and toxicity data for several compounds imparts uncertainty on the evaluation although it is difficult to determine the significance of the uncertainty. It appears, however, that screening values and/or TRVs were available for the more toxic (relatively) and prevalent compounds (both frequency and concentration) at the Site. The exception to this is for surface water. Many compounds measured in surface water did not have screening values so it

was not possible to assess the potential risks for many compounds nor the significance of this minimal evaluation. Many of the compounds measured, however, are naturally occurring and all compounds were measured at relatively low concentrations.

There are uncertainties in the PAH ERLs/ERMs used to assess risk to benthos. These values are based on effects to growth, survival, and/or benthic community indices for (largely) field collected sediments across the United States and should be used only as a screening tool (Long, et al., 1995). The use of field collected sediments imparts uncertainty in the establishment of these screening benchmarks and in any subsequent evaluation of sediment risk using these values because these sediments also contain concentrations of other chemicals that will affect sediment toxicity. The differences between the toxicity observed in the studies used to develop the ERLs/ERMs and site-specific measures of toxicity may be remarkable as observed at several site-specific studies where higher concentrations of PAHs did not result in toxicity (Alcoa, 2000 and Paine, 1996).

The AETs used to characterize risk for hexachlorobenzene, benzo(g,h,i)perylene, and indeno(1,2,3-cd)pyrene are based on screening sediment benchmarks developed for Puget Sound using a bivalve study, a microtox assay, and a microtox assay, respectively. Sediment toxicity is highly variable based on local sediment conditions and, therefore, predictions of risk from screening values can vary greatly.

### 4.3 RISK CHARACTERIZATION UNCERTAINTY

This section discusses uncertainties related to the risk characterization and the methodology used to estimate risk. The most significant general uncertainty associated with risk characterization is how exposure to multiple chemicals was evaluated. Additivity of effects to the various receptors from exposure to the multiple chemicals measured at the Site was not appropriate since these chemicals, for the most part, act via different mechanisms of toxicity. Furthermore, no evidence was found in the scientific literature to suggest that the toxicity of the compounds measured at the Site should be considered additive. Likewise, some metals are antagonistic but these effects were not considered either since the exact mechanisms are not well understood toxicologically nor is there an accepted method for quantifying this type of interaction in the risk assessment.

For PAHs, however, potential effects were assumed to be additive and, as such, risks were estimated for total PAHs, LPAHs, HPAHs, and for individual compounds as well. This multipronged evaluation increases the confidence in the risk predictions as it provides for several lines of evidence to draw conclusions.

# 5.0 SUMMARY AND CONCLUSIONS OF THE SLERA

The SLERA can be used to assess the need and, if required, the level of effort required to conduct a baseline ecological risk assessment, or to determine that no further action is necessary. Furthermore, the SLERA can be used to focus subsequent phases of the investigation by eliminating compounds from further evaluation (EPA, 2001). This section presents the summary and conclusions of the SLERA.

# 5.1 SUMMARY OF RISK EVALUATION

The ecological risk assessment evaluated the potential for unacceptable risk for terrestrial and aquatic/estuarine receptors as a result of direct (incidental ingestion) and indirect (bioaccumulation/biomagnifications through the food chain) exposure to chemicals measured in soil and sediment at the Site. A summary of all soil and sediment HQs greater than one are provided in Tables 22, 23, and 24 for the South Area, North Area, and Background areas, respectively, while Appendices B through I provide detailed risk characterization calculations for all compounds. A summary of the surface water risk evaluation is provided in Table 25.

# 5.1.1 Soil and Sediment

Several of the calculations result in an HQ greater than one using the NOAEL or ERL as the TRV, which suggests that there is a possible risk to these receptors via exposure to the compound in the media. The compounds with LOAEL- or ERM-based HQs greater than one are discussed further in this section. Results of the ecological assessment indicate the following:

- The LOAEL-based HQs for zinc in soil from the South Area are 0.81 and 1.52 for the average and RME earthworm receptor scenarios, respectively.
- The LOAEL-based HQs for zinc in soil from the North Area are 0.45 and 3.32 for the
  average and RME earthworm receptor scenarios, respectively. The LOAEL-based HQs
  for zinc in soil from the North Area are 0.14 and 1.06 for the average and RME deer
  mouse receptor scenarios, respectively, and 0.19 and 1.42 for the average and RME
  American Robin receptor scenarios, respectively.

 The LOAEL-based HQs for zinc in soil from the background area are 0.46 and 1.80 for the average and RME earthworm receptor scenarios, respectively. The LOAEL-based HQs for barium in soil from the background are 1.01 and 1.52 for the average and RME earthworm receptor scenarios, respectively.

- The AET-based HQs for hexachlorobenzene in sediment in the Intracoastal Waterway are
   1.67 and 2.10 for the average and RME benthic receptor scenarios, respectively. The
   AET-based HQs for hexachlorobenzene in sediment from the background location are

   2.97 and 3.12 for the average and RME benthic receptor scenarios, respectively.
- The ERM-based HQs for zinc in pond sediment are 0.81 and 2.44 for the average and RME benthic receptor scenarios, respectively.
- The ERM-based HQs for dibenz(a,h)anthracene in sediment from the North Area wetlands are 0.77 and 4.15 for the average and RME benthic receptor scenarios, respectively.

Estimated risks for earthworms from zinc in soils of the South Area, North Area, and background area as well as estimated risks for the benthic receptor from zinc in pond sediment suggest that adverse risks may be possible. It is concluded, however, that based on similar soil zinc concentrations measured at all four areas (South Area soil, North Area soils, background area soils and the Small Pond sediments) and similar estimated risks for these areas, additional investigation and evaluation are not necessary.

Zinc concentrations in soil and/or sediment at the Site and background area may represent natural variation or indicate regionally elevated levels from natural and/or anthropogenic sources. As reported in ATSDR, 2005, zinc is found is soils and surficial material of the US at concentrations between <5 and 2,900 mg/kg (ATSDR, 2005). Zinc is a commonly used metal and most of the produced zinc is used to galvanize steel and iron products to prevent corrosion.

Plate 2 provides surficial zinc concentrations in soil and sediment collected during the RI. Evaluating the zinc data closer shows that, while it is somewhat random, there is also an observable trend of higher concentrations of zinc along Marlin Ave. This holds true when looking at the six pond samples -- zinc concentrations in the Small Pond, which is closer to

Marlin Ave. and is more of a low depression in the earth than a true pond, are much higher than concentrations in the Fresh Water Pond. Likewise, zinc concentrations measured in off-site background samples BSS-1 and BSS-6 were 969 and 890 mg/kg respectively. These data support the conclusion that the zinc measured at the Site may reflect natural variation in an area of regionally elevated zinc. Because of this issue and the similarities in estimated risks associated with zinc at the Site and from the background area, it is concluded that no additional evaluation of zinc is needed.

Hexachlorobenzene measured in sediment of the Intracoastal Waterway near the Site and the background area suggests a possible risk for the benthic receptor. It is concluded that based on similar potential risks between sediments in the Intracoastal Waterway near the Site and the background area, however, that additional investigation and evaluation are not necessary. It should be noted that hexachlorobenzene was measured in one of sixteen sediment samples, and was "J" flagged. It was not measured in the background samples but using the detection limit results in a similar risk estimate.

The ERM-based HQs for dibenz(a,h)anthracene ranged from 0.77 to 4.15 for the average and RME benthic receptor scenarios, respectively, which suggest that adverse benthic risks from sediment in the North Area are possible for the areas. It should be noted, however, that the ERM-based HQs for total PAHs and HPAHs are below one as are the NOAEL-based HQs for the fiddler crab, sandpiper and green heron receptors. Dibenz(a,h)anthracene is not considered bioaccumulative (TCEQ, 2001) and none of the risk estimates for the higher trophic level receptors have HQs greater than one for this compound.

Evaluating dibenz(a,h)anthracene closer reveals that six of forty-nine samples exceeded the TCEQ marine sediment Protective Concentration Limit (PCL) while five of six samples exceeded both the TCEQ second effects level (SEL) for marine sediment and the midpoint of the PCL and SEL. Dibenz(a,h)anthracene was not measured in the other forty-three samples above the sample detection limit. The skewness of the dataset was impacted by these six samples and the forty-three non-detects, and was significant enough to influence ProUCL to recommend using a 99% Chebyshev value as the EPC. When the geometic standard deviation and variability are relatively high, a 99% Chebyshev UCL is recommended, which is considerably more conservative that the 95% UCL. Therefore, the RME risk estimate accounts for this variability and likely overestimates risk for the majority of the Site.

As noted in Section 2.0, there are no indications that the benthic community in these six locations is stressed or has been impacted by the dibenz(a,h)anthracene or other compounds present in the sediment. Based on this weight of evidence, it is unlikely that localized concentrations of dibenz(a,h)anthracene have an appreciable, adverse ecological effect on the benthic community of the North Area wetlands. It is unclear why the toxicity value for this compound is significantly lower than the benchmarks derived for the structurally similar PAHs but it is clear that this low value significantly impacts the perception of risk and should be taken in context with other benchmarks.

# 5.1.2 <u>Surface Water</u>

Several conclusions can be made in regards to surface water sampled at the Site. Surface water sampled near the Site in the Intracoastal Waterway did not have measured concentrations in excess of screening values, except for dissolved boron, whereas dissolved boron, iron, and silver, and 4,4'-DDT were measured in at least one surface water sample collected at the background location that did exceed screening levels. More compounds were measured in the samples collected from the background location than near the Site although the concentrations for those compounds measured at both areas were generally similar. Dissolved boron and silver concentrations measured in the ponds were less than that measured in surface water collected from the background area of the Intracoastal Waterway. Dissolved manganese was measured in pond surface water at a concentration greater than the benchmark. Dissolved boron, copper, and manganese, and acrolein were measured in excess of their screening criteria in one sample of surface water collected in the wetlands of the North Area.

All of the concentrations of compounds measured in surface water were well below the reported  $LC_{50}s$ , in all cases by more than an order of magnitude and sometimes several orders of magnitude. While it is difficult to determine the significance of these screening level comparisons since many occur in background areas, it is unlikely that adverse ecological effects are occurring due to Site-related chemicals measured in surface water at the Site.

# 5.2 SELECTION OF COPECS FOR FURTHER EVALUATION

Identification of COPECs for the baseline ecological risk assessment (BERA) is one of the primary objectives of the SLERA. While some compounds in some media provide risk estimates above a hazard quotient of one and/or exceeded screening criteria, further evaluation of these compounds in a baseline ecological risk assessment is not recommended. Much of this evaluation has relied on the use of screening criteria, which are derived to avoid underestimating risk. Requiring a cleanup based solely on a comparison to a screening level type of analysis is not technically defensible (EPA, 1997). In addition, the risk estimates quantified in this report were based on conservative assumptions that, given uncertainty, were purposefully chosen to err on the side of conservatism and not underestimate risk. The weight of evidence conclusion for the SLERA is summarized below.

Zinc concentrations and estimated risks were similar between background areas and the Site. While several of the risk estimates suggest that adverse risks may be possible (eg., North Area soil, background soil, wetlands sediment, very few of the LOAEL-based HQs are much greater than one. The highest estimated risk from zinc (2.44 for the RME scenario and 0.81 for the average) was the ERM-based HQ for *Capitella capitata* in the ponds, specifically the Small Pond. As noted earlier, this pond is essentially dry during the summer months. The maximum measured concentration detected in pond sediment was 999 mg/kg which is similar to background soil concentrations and less than the terrestrial portion of the North Area. Even though concentrations of zinc in soil in the North Area are higher than the pond sediment, risks are less for zinc in soil because the TRV for soil is higher than the sediment value.

Hazard quotients for dibenz(a,h)anthracene and other PAHs in South Area and background area soils, and pond and Intracoastal Waterway (near the Site and background) sediment samples are below one. The ERM-based HQs for dibenz(a,h)anthracene ranged from 0.77 to 4.15 for the average and RME benthic receptor scenarios, respectively, which suggest that adverse benthic risks from sediment in the North Area may be possible for the areas with above-average concentrations. The ERM-based HQs for total PAHs and HPAHs are below one as are the NOAEL-based HQs for the fiddler crab, sandpiper and green heron receptors. A closer look at the dibenz(a,h)anthracene data shows that it was measured in six of forty-nine samples, all above the ERL screening level with five exceeding the ERM. Dibenz(a,h)anthracene is not considered bioaccumulative (TCEQ, 2001) and none of the risk estimates for the higher trophic level receptors have HQs greater than one for this compound. So, while localized adverse effects may be possible at the sampling locations that exceed the screening criteria, it is unlikely that adverse

risks are present for the benthic community of the North Area wetlands, which is roughly 15 acres in size and is part of a wetlands system that covers hundreds of acres.

Because none of the compounds measured in Site soils, sediment or surface water pose an adverse ecological risk, no compounds have been identified as COPECs for further evaluation in a BERA.

# 5.3 SCIENTIFIC MANAGEMENT DECISION POINT

The SLERA concludes with a SMDP and the three possible decisions at this point according to EPA (EPA, 1997) are:

- 1. There is adequate information to conclude that ecological risks are negligible and therefore no need for remediation on the basis of ecological risk;
- 2. The information is not adequate to make a decision at this point, and the ecological risk assessment process will continue to Step 3; or
- 3. The information indicates a potential for adverse ecological effects, and a more thorough assessment is warranted (ie., continue to Step 3).

Based on the results of the SLERA, additional data are not needed to better characterize the nature and extent of contamination and potential risks associated with the Site. Given the conservative evaluation and the conclusions of the SLERA presented herein, compounds measured in Site soil, sediment and surface water are not likely to pose an adverse risk. As such, additional characterization of ecological risks and remediation are not recommended for this Site.

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APPENDIX A PRO UCL OUTPUT

# APPENDIX B ECOLOGICAL RISK CALCULATIONS FOR SOUTH AREA SOIL

# APPENDIX C ECOLOGICAL RISK CALCULATIONS FOR NORTH AREA SOIL

# APPENDIX D ECOLOGICAL RISK CALCULATIONS FOR BACKGROUND SOIL

APPENDIX E
ECOLOGICAL RISK CALCULATIONS FOR INTRACOASTAL WATERWAY
SEDIMENT

APPENDIX F
ECOLOGICAL RISK CALCULATIONS FOR INTRACOASTAL WATERWAY
BACKGROUND SEDIMENT

# APPENDIX G ECOLOGICAL RISK CALCULATIONS FOR WETLAND SEDIMENT

# APPENDIX H ECOLOGICAL RISK CALCULATIONS FOR POND SEDIMENT

# APPENDIX I ECOLOGICAL RISK CALCULATIONS USING LOAELS

# APPENDIX J REFERENCES FOR THE APPENDICES

# TABLE 1 EXPOSURE POINT CONCENTRATION (mg/kg) SOUTH AREA SURFACE SOIL\*

					EPA			
				TCEQ	Ecological			
				Ecological	Screening		Statistic	# of Detects/#
Chemicals of Interest <sup>+</sup>	Average	Max Detection	Min Detection	Benchmark (1)	Level (2)	95% UCL	Used (3)	of Samples
2-Methylnaphthalene	0.0293	0.501	0.0106			0.0784	97.5% Chebyshev	22 of 83
4,4'-DDD	0.0007894	0.0243	0.00264			0.0029	97.5% Chebyshev	5 of 83
4,4'-DDE	0.0019	0.0693	0.000428			0.0074	97.5% Chebyshev	17 of 83
4,4'-DDT	0.0038	0.0625	0.000281		0.021 (m)	0.014	99% Chebyshev	37 of 83
Acenaphthene	0.0595	1.69	0.0113	20 (p)		0.197	97.5% Chebyshev	26 of 83
Acenaphthylene	0.0382	0.935	0.0184			0.113	97.5% Chebyshev	19 of 83
Aluminum	5335	15200	414			5946	95% Student's-t	83 of 83
Anthracene	0.0961	2.46	0.0112			0.297	97.5% Chebyshev	37 of 83
Antimony	1.118	5.14	0.2	5 (p)	0.27 (m)	1.959	97.5% Chebyshev	72 of 83
Aroclor-1254	0.137	7.98	0.00334			0.726	97.5% Chebyshev	13 of 85
Arsenic	3.735	24.3	0.26	18 (p)	18 (p)	4.535	95% Approx. Gamma	71 of 83
Barium	345.2	2180	18.6	330 (i)	330 (i)	415.1	95% H-UCL	83 of 83
Benzo(a)anthracene	0.345	5.02	0.0286			1.211	99% Chebyshev	30 of 83
Benzo(a)pyrene	0.457	4.57	0.0103			1.457	99% Chebyshev	65 of 83
Benzo(b)fluoranthene	0.582	5.42	0.0408			1.638	95% H-UCL	61 of 83
Benzo(g,h,i)perylene	0.324	4.24	0.00989			1.095	99% Chebyshev	51 of 83
Benzo(k)fluoranthene	0.24	4.25	0.0195			0.651	97.5% Chebyshev	33 of 83
Beryllium	0.408	4.6	0.014	10 (p)	21 (m)	0.487	95% Approx. Gamma	82 of 83
Boron	4.662	54.4	2.43	0.5 (p)		9.663	97.5% Chebyshev	34 of 83
Butyl Benzyl Phthalate	0.0187	0.297	0.0129			0.0373	95% Chebyshev	6 of 83
Cadmium	0.464	9.71	0.023	32 (p)	0.36 (m)	1.71	99% Chebyshev	50 of 83
Carbazole	0.0612	1.54	0.0104			0.193	97.5% Chebyshev	29 of 83
Chromium	16.08	136	3.37	0.4 (i)	26 (a)	17.45	95% H-UCL	83 of 83
Chrysene	0.409	4.87	0.00932			1.322	99% Chebyshev	56 of 83
Cobalt	3.705	16	0.049	13 (p)	13 (p)	4.781	95% Chebyshev	82 of 83
Copper	27.98	216	1.55	61 (i)	28 (a)	32.45	95% H-UCL	83 of 83
Dibenz(a,h)anthracene	0.155	1.64	0.0639			0.363	97.5% Chebyshev	36 of 83
Dibenzofuran	0.0378	0.821	0.0167			0.111	97.5% Chebyshev	17 of 83
Dieldrin	0.000997	0.0205	0.000243		0.0049 (m)	0.003	97.5% Chebyshev	21 of 83
Di-n-butyl Phthalate	0.048	0.753	0.0368	200 (p)		0.0967	95% Chebyshev	9 of 83
Endosulfan Sulfate	0.002	0.0713	0.000456			0.0077	97.5% Chebyshev	17 of 83
Endrin Aldehyde	0.0023	0.0738	0.000497			0.0084	97.5% Chebyshev	22 of 83
Endrin Ketone	0.0016	0.02	0.000469			0.004	97.5% Chebyshev	18 of 83
Fluoranthene	0.799	14.2	0.0133			2.656	95% H-UCL	59 of 83
Fluorene	0.0515	1.11	0.00945	30 (i)		0.155	97.5% Chebyshev	28 of 83
gamma-Chlordane	0.00082679	0.0156	0.00071			0.0025	97.5% Chebyshev	8 of 83
Indeno(1,2,3-cd)pyrene	0.47	6.49	0.0634			1.115	97.5% Chebyshev	63 of 83
Iron	16285	77100	3450			17845	95% H-UCL	83 of 83
Lead	69.61	643	2.82	120 (p)	11 (a)	84.5	95% H-UCL	83 of 83
Lithium	7.856	28	0.65	2 (p)		9.055	95% Approx. Gamma	83 of 83
Manganese	257.4	892	59.3	500 (p)	220 (p)	281.1	95% Student's-t	83 of 83
Mercury	0.0227	0.66	0.0032	0.1 (i)		0.0254	95% H-UCL	37 of 83
Molybdenum	1.306	8.42	0.098	2 (p)		1.645	95% Approx. Gamma	71 of 83
Nickel	11.64	36.7	2.84	30 (p)	38 (p)	12.54	95% Approx. Gamma	83 of 83
Phenanthrene -	0.512	12.6	0.0139			2.198	99% Chebyshev	57 of 83
Pyrene	0.533	8.47	0.0121			1.366	95% H-UCL	57 of 83
Strontium	70.61	527	16.5			101.2	95% Chebyshev	83 of 83
Tin	0.611	4.95	0.52	50 (p)		0.991	95% Chebyshev	23 of 83
Titanium	29.8	645	11.5			63	95% Chebyshev	83 of 83
Vanadium	13.76	45.6	5.42	2 (p)	7.8 (a)	14.84	95% Approx. Gamma	83 of 83
Zinc	601.2	4770	12.3	120 (i)	46 (a)	727.7	95% Approx. Gamma	83 of 83
LPAH	0.7866	19.296	0.07485		29 (i)	3.0384		
HPAH	4.314	59.17	0.27111		1.1 (m)	12.874		
Total PAH	5.1006	78.466	0.34596			15.9124		

- \* Surface soil was collected from 0 to 0.5 ft. below ground surface.
- <sup>+</sup> Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.
- (1) From Table 3-4 of TCEQ, 2006.
- (2) From www.epa\_gov/ecotox/ecossl.
  (3) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.
- (a) avian
- (i) soil invertebrate
- (m) mammal
- (p) plant

# TABLE 2 EXPOSURE POINT CONCENTRATION (mg/kg) SOUTH AREA SOIL\*

		1			- FD.4			
				T050	EPA			
				TCEQ	Ecological		a	
				Ecological	Screening		Statistic	# of Detects/#
Chemicals of Interest <sup>+</sup>	Average	Max Detection	Min Detection	Benchmark (1)	Level (2)	95% UCL	Used (3)	of Samples
1,3,5-Trimethylbenzene	0.099	4.36	0.000267			0.532	97.5% Chebyshev	9 of 83
2-Butanone	0.00412	0.0226	0.000992			0.00925	97.5% Chebyshev	4 of 83
2-Hexanone	0.00406	0.0207	0.00109			0.0164	97.5% Chebyshev	8 of 83
2-Methylnaphthalene	0.0698	7.21	0.0106			0.341	97.5% Chebyshev	32 of 166
4,4'-DDD	0.00766	1.12	0.000369			0.0498	97.5% Chebyshev	21 of 166
4,4'-DDE	0.0017	0.0693	0.000428			0.0054	97.5% Chebyshev	22 of 166
4,4'-DDT	0.0037	0.113	0.000281		0.021 (m)	0.0125	99% Chebyshev	68 of 166
Acenaphthene	0.0419	1.69	0.0113	20 (p)	`	0.115	97.5% Chebyshev	35 of 166
Acenaphthylene	0.042	1.2	0.0172			0.114	97.5% Chebyshev	37 of 166
Acetone	0.0145	0.16	0.031			0.0491	99% Chebyshev	10 of 83
Aluminum	6452	15700	414			6914	95% Student's-t	166 of 166
Anthracene	0.0874	2.46	0.0112			0.21	97.5% Chebyshev	65 of 166
Antimony	1.023	5.51	0.2	5 (p)	0.27 (m)	1.576	97.5% Chebyshev	144 of 166
Aroclor-1254	0.205	11.5	0.00334			0.74	97.5% Chebyshev	25 of 170
Arsenic	3.331	24.3	0.23	18 (p)	18 (p)	4.916	97.5% Chebyshev	139 of 166
Barium	237.4	2180	18.6	330 (i)	330 (i)	330.4	95% Chebyshev	166 of 166
Benzene	0.004	0.0221	0.000339			0.0065	97.5% Chebyshev	72 of 83
Benzo(a)anthracene	0.268	5.02	0.000333			0.859	99% Chebyshev	44 of 166
Benzo(a)pyrene	0.347	4.88	0.00999			1.008	99% Chebyshev	113 of 166
Benzo(b)fluoranthene	0.466	5.97	0.0408			1.256	99% Chebyshev	102 of 166
Benzo(g,h,i)perylene	0.251	4.24	0.00989			0.545	97.5% Chebyshev	81 of 166
Benzo(k)fluoranthene	0.157	4.25	0.00383			0.343	97.5% Chebyshev	45 of 166
Beryllium	0.465	4.6	0.014	10 (p)	21 (m)	0.668	97.5% Chebyshev	165 of 166
Boron	4.811	54.4	2.43	0.5 (p)		7.387	97.5% Chebyshev	72 of 166
Butyl Benzyl Phthalate	0.0203	0.617	0.0129	0.5 (p)		0.0392	95% Chebyshev	10 of 166
Cadmium	0.335	9.71	0.023	32 (p)	0.36 (m)	0.0392	97.5% Chebyshev	93 of 166
Carbazole	0.0459	1.54	0.023	32 (β) 	0.36 (111)	0.731	97.5% Chebyshev	42 of 166
Carbon Disulfide	0.0439	0.028	0.000987			0.004	97.5% Chebyshev	13 of 83
Chromium	13.53	136	2.03	0.4 (i)	26 (a)	17.75		
Chrysene	0.327	4.87	0.00901	0.4 (I)	26 (a)	0.938	95% Chebyshev 99% Chebyshev	166 of 166 93 of 166
						4.407		
Cobalt	4.144	16	0.049	13 (p)	13 (p)		95% Student's-t	165 of 166
Copper	24.26	487	0.13	61 (i)	28 (a)	46.92	97.5% Chebyshev	164 of 166
Cyclohexane	0.266	21.7	0.000626			1.898	97.5% Chebyshev	47 of 83
Dibenz(a,h)anthracene	0.113	1.64	0.0619			0.236	97.5% Chebyshev	56 of 166
Dibenzofuran	0.0309	0.821	0.0167		0.0049 (m)	0.0709	97.5% Chebyshev	23 of 166
Dieldrin	0.00090075	0.0205	0.000243		0.0049 (m)	0.0021	97.5% Chebyshev	33 of 166
Di-n-butyl Phthalate	0.0391	0.753	0.0311	200 (p)		0.0657	95% Chebyshev	11 of 166
Endosulfan Sulfate	0.0013	0.0713	0.0713			0.0042	97.5% Chebyshev	21 of 166
Endrin Aldehyde	0.0019	0.0738	0.000497			0.0055	97.5% Chebyshev	31 of 166
Endrin Ketone	0.0013	0.02	0.000469			0.0029	97.5% Chebyshev	25 of 166
Ethylbenzene	0.0038	0.105	0.000654			0.0127	97.5% Chebyshev	47 of 83
Fluoranthene	0.594	14.2	0.0133			1.886	99% Chebyshev	96 of 166
Fluorene	0.0442	1.11	0.00945	30 (i)		0.107	97.5% Chebyshev	41 of 166
gamma-Chlordane	0.00069043	0.0156	0.00071			0.0017	97.5% Chebyshev	12 of 166
Indeno(1,2,3-cd)pyrene	0.368	6.49	0.0574			0.761	97.5% Chebyshev	104 of 166
Iron	14277	77100	2410			17453	95% Chebyshev	166 of 166
Isopropylbenzene (cumene)	0.831	64.9	0.000318			8.618	99% Chebyshev	16 of 83
Lead	53.52	702	2.48	120 (p)	11 (a)	104	97.5% Chebyshev	166 of 166
Lithium	10.03	28.6	0.65	2 (p)		12.17	95% Chebyshev	166 of 166
m,p-Xylene	0.0347	2.56	0.000558			0.227	97.5% Chebyshev	53 of 83
Manganese	261.2	892	59.3	500 (p)	220 (p)	277.5	95% Student's-t	166 of 166
Mercury	0.0262	0.85	0.0026	0.1 (i)		0.0718	97.5% Chebyshev	73 of 166
Methylcyclohexane	0.0369	2.73	0.000223			0.242	97.5% Chebyshev	57 of 83
Molybdenum	0.89	10.4	0.088	2 (p)		1.61	97.5% Chebyshev	118 of 166
Naphthalene	0.323	19.2	0.00482			2.775	99% Chebyshev	8 of 83
Nickel	11.74	36.7	2.7	30 (p)	38 (p)	12.37	95% Student's-t	166 of 166
n-Propylbenzene	0.0237	1.8	0.00023			0.159	97.5% Chebyshev	14 of 83
o-Xylene	0.0132	0.84	0.000223			0.077	97.5% Chebyshev	32 of 83
Phenanthrene	0.401	12.6	0.0136			1.349	99% Chebyshev	95 of 166
Pyrene	0.432	8.47	0.0121			1.29	99% Chebyshev	98 of 166
Strontium	75.61	591	16.5			100.6	95% Chebyshev	166 of 166
Tin	0.616	6.48	0.52	50 (p)		0.91	95% Chebyshev	40 of 166
Titanium	25.77	645	4.02			32.21	95% Student's-t	166 of 166
Toluene	0.00574	0.0192	0.000721			0.0137	97.5% Chebyshev	69 of 83
Vanadium	14.4	45.6	4.73	2 (p)	7.8 (a)	15.17	95% Approx. Gamma	166 of 166
Xylene (total)	0.0479	3.4	0.000777			0.304	97.5% Chebyshev	53 of 83
Zinc	433.8	7650	6.17	120 (i)	46 (a)	815.2	97.5% Chebyshev	166 of 166
LPAH	1.0093	45.47	0.07817		29 (i)	5.011	,	
	3.323	60.03	0.24199		1.1 (m)	9.157		
HPAH								
HPAH Total PAH	4.3323	105.5	0.32016			14.168		

- Notes:

  \* Soil was collected from 0 to 4 ft. below ground surface.

  \* Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.

  (1) From Table 3-4 of TCEQ, 2006.

  (2) From www.epa.gov/ecotox/ecossl.

  (3) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

  (a) avian

  (i) soil invertebrate

  (m) mammal

  (p) plant

### TABLE 3 EXPOSURE POINT CONCENTRATION (mg/kg) NORTH AREA SURFACE SOIL\*

Chemicals of Interest*	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark <sup>(1)</sup>	EPA Ecological Screening Level	95% UCL	Statistic Used <sup>(3)</sup>	# of Detects/#
2-Methylnaphthalene	0.0123	0.053	0.01	Bonominark		0.0275	95% Chebyshev	3 of 18
4.4'-DDE	0.00123	0.033	0.00216			0.0093	99% Chebyshev	2 of 18
4.4'-DDT	0.0011	0.0149	0.00210		0.021 (m)	0.0033	99% Chebyshev	7 of 18
Acenaphthene	0.0161	0.157	0.021	20 (p)	0.021 (111)	0.0528	95% Chebyshev	2 of 18
Acenaphthylene	0.0099	0.0555	0.0555	20 (p)		0.0234	95% Chebyshev	1 of 18
Aluminum	10673	16800	1810			12185	95% Student's-t	18 of 18
Anthracene	0.0257	0.264	0.00887			0.168	99% Chebyshev	4 of 18
Antimony	1.744	8.09	1.66	5 (p)	0.27 (m)	6.777	99% Chebyshev	9 of 18
Aroclor-1254	0.0037	0.0122	0.0122			0.0077	95% Chebyshev	1 of 18
Arsenic	2.522	5.69	0.54	18 (p)	18 (p)	2.999	95% Student's-t	17 of 18
Barium	145.2	476	46.1	330 (i)	330 (i)	264.2	95% Chebyshev	18 of 18
Benzo(a)anthracene	0.0715	1.18	1.18			0.72	99% Chebyshev	1 of 18
Benzo(a)pyrene	0.114	1.42	0.0135			0.888	99% Chebyshev	7 of 18
Benzo(b)fluoranthene	0.146	1.62	0.0487			0.352	95% Adjusted Gamma	8 of 18
Benzo(g,h,i)perylene	0.132	1.28	0.0237			0.842	99% Chebyshev	10 of 18
Benzo(k)fluoranthene	0.0689	0.799	0.011			0.505	99% Chebyshev	4 of 18
Beryllium	0.708	2.88	0.066	10 (p)	21 (m)	2.125	99% Chebyshev	17 of 18
Bis(2-ethylhexyl)phthalate	0.0462	0.239	0.0122			0.0978	95% Chebyshev	6 of 18
Boron	8.028	39.2	3.15	0.5 (p)		13.49	95% Approx. Gamma	13 of 18
Butyl Benzyl Phthalate	0.016	0.151	0.151			0.0514	95% Chebyshev	1 of 18
Cadmium	0.207	0.8	0.28	32 (p)	0.36 (m)	0.799	99% Chebyshev	8 of 18
Carbazole	0.0153	0.128	0.013			0.045	95% Chebyshev	4 of 18
Chromium	20.26	128	7.9	0.4 (i)	26 (a)	48.59	95% Student's-t	18 of 18
Chrysene	0.102	1.3	0.011			0.812	99% Chebyshev	7 of 18
Cobalt	5.789	7.87	2.81	13 (p)	13 (p)	6.406	95% Student's-t	18 of 18
Copper	24.13	200	5.9	61 (i)	28 (a)	70.01	95% Chebyshev	18 of 18
Dibenz(a,h)anthracene	0.0471	0.404	0.045			0.284	99% Chebyshev	4 of 18
Dibenzofuran	0.0129	0.0862	0.0862			0.0336	95% Chebyshev	1 of 18
Dieldrin	0.0004866	0.00545	0.00545		0.0049 (m)	0.0034	99% Chebyshev	1 of 18
Diethyl Phthalate	0.0113	0.011	0.011	100 (p)		0.0215	95% Chebyshev	1 of 18
Di-n-butyl Phthalate	0.0179	0.01	0.01	200 (p)		0.0357	95% Chebyshev	1 of 18
Di-n-octyl Phthalate	0.0144	0.123	0.0154			0.0428	95% Chebyshev	2 of 18
Endrin	0.000304	0.00149	0.00149			0.000759	95% Chebyshev	1 of 18
Endrin Ketone	0.000874	0.00966	0.00966			0.0031	95% Chebyshev	1 of 18
Fluoranthene	0.159	2.19	0.0214			1.358	99% Chebyshev	6 of 18
Fluorene	0.0163	0.141	0.017	30 (i)		0.0496	95% Chebyshev	3 of 18
Indeno(1,2,3-cd)pyrene	0.151	1.51	0.02			0.969	99% Chebyshev	9 of 18
Iron	19477	102000	8450			41127	95% Chebyshev	18 of 18
Lead	57.7	471	8.22	120 (p)	11 (a)	318.3	99% Chebyshev	18 of 18
Lithium	16.57	26.6	2.59	2 (p)		18.68	95% Student's-t	18 of 18
Manganese	369.5	1210	82.3	500 (p)	220 (p)	473.3	95% Approx. Gamma	18 of 18
Mercury	0.0126	0.064	0.006	0.1 (i)		0.0218	95% Approx. Gamma	8 of 18
Molybdenum	0.949	10.7	0.085	2 (p)		6.812	99% Chebyshev	11 of 18
Nickel	17.04	51.7	11.7	30 (p)	38 (p)	20.76	95% Student's-t	18 of 18
Phenanthrene	0.109	1.34	0.018			0.845	99% Chebyshev	7 of 18
Pyrene	0.147	1.87	0.0149			1.169	99% Chebyshev	8 of 18
Silver	0.0543	0.41	0.092	2 (p)		0.148	95% Chebyshev	2 of 18
Strontium	57.32	93.6	26.6			65.4	95% Student's-t	18 of 18
Thallium	0.109	0.63	0.63	1 (p)		0.273	95% Chebyshev	1 of 18
Tin	0.625	3.67	0.68	50 (p)		1.494	95% Chebyshev	4 of 18
Titanium	20.67	55.9	3.41			26.26	95% Approx. Gamma	18 of 18
Vanadium	19.66	45.8	7.85	2 (p)	7.8 (a)	23.4	95% Student's-t	18 of 18
Zinc	418.4	5640	29.5	120 (i)	46 (a)	3485	99% Chebyshev	18 of 18
LPAH	0.1893	2.0105	0.13037		29 (i)	1.1663		1
HPAH	1.1385	13.573	1.3892		1.1 (m)	7.899		
Total PAH	1.3278	15.5835	1.51957			9.0653		1

- Notes:
  \* Surface soil was collected from 0 to 0.5 ft. below ground surface.
- † Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.
- (1) From Table 3-4 of TCEQ, 2006.
- (2) From www.epa.gov/ecotox/ecossl.
- (3) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.
- (a) avian
  (i) soil invertebrate
- (m) mammal (p) plant

# TABLE 4 EXPOSURE POINT CONCENTRATION (mg/kg) NORTH AREA SOIL+

		Max	Min	TCEQ Ecological	EPA Ecological Screening		Statistic	# of Detects/#
Chemicals of Interest**	Average	Detection	Detection	Benchmark (1)	Level (2)	95% UCL	Used (3)	of Samples
1,1-Dichloroethane	0.0286	0.518	0.00161			0.299	99% Chebyshev	3 of 19
1,1-Dichloroethene 1,2-Dichloroethane	0.0179 0.0106	0.313 0.177	0.00178 0.00231			0.181 0.103	99% Chebyshev 99% Chebyshev	2 of 19 4 of 19
2-Butanone	0.0106	0.177	0.00231			0.103	99% Chebyshev	11 of 19
2-Methylnaphthalene	0.0103	0.053	0.0017			0.0198	95% Chebyshev	4 of 36
4,4'-DDE	0.0007	0.0149	0.00216			0.0024	95% Chebyshev	2 of 36
4.4'-DDT	0.000704	0.0108	0.000597		0.021 (m)	0.0038	99% Chebyshev	7 of 36
Acenaphthene	0.0142	0.157	0.021	20 (p)		0.036	95% Chebyshev	4 of 36
Aluminum	11971	18300	1810			13092	95% Student's-t	36 of 36
Anthracene	0.0215	0.264	0.00887			0.107	99% Chebyshev	6 of 36
Antimony	1.416	8.09	1.66	5 (p)	0.27 (m)	4.366	99% Chebyshev	16 of 36
Aroclor-1254	0.0056	0.0938	0.0122			0.0168	95% Chebyshev	2 of 36
Arsenic	2.573	5.69	0.54	18 (p)	18 (p)	2.959	95% Student's-t	32 of 36
Barium	142.1	362	46.1	330 (i)	330 (i)	211.7	95% Student's-t	36 of 36
Benzene	0.0027	0.00632	0.00138			0.0034	95% Student's-t	12 of 19
Benzo(a)anthracene	0.068	1.18	0.0383			0.464	99% Chebyshev	4 of 36
Benzo(a)pyrene	0.0922 0.12	1.42 1.62	0.0135 0.0487			0.554 0.649	99% Chebyshev	10 of 36
Benzo(b)fluoranthene	0.12	1.62	0.0487			0.649	99% Chebyshev 99% Chebyshev	11 of 36 14 of 36
Benzo(g,h,i)perylene Benzo(k)fluoranthene	0.0601	0.799	0.0237			0.494	99% Chebyshev	6 of 36
Beryllium	0.752	2.88	0.066	10 (p)	21 (m)	1.087	95% Chebyshev	35 of 36
Bis(2-ethylhexyl)phthalate	0.0428	0.239	0.0122	10 (p)		0.0753	95% Chebyshev	11 of 36
Boron	7.576	39.2	3.14	0.5 (p)		20.55	99% Chebyshev	26 of 36
Bromoform	0.0023	0.018	0.011			0.013	99% Chebyshev	2 of 19
Butyl Benzyl Phthalate	0.0125	0.151	0.054			0.031	95% Chebyshev	2 of 36
Cadmium	0.193	0.8	0.28	32 (p)	0.36 (m)	0.59	99% Chebyshev	15 of 36
Carbazole	0.0143	0.128	0.0108			0.0323	95% Chebyshev	7 of 36
Carbon Disulfide	0.0028	0.0284	0.00757			0.018	99% Chebyshev	3 of 19
Chromium	17.17	128	7.76	0.4 (i)	26 (a)	22.69	95% Student's-t	36 of 36
Chrysene	0.0885	1.3	0.0104			0.529	99% Chebyshev	11 of 36
cis-1,2-Dichloroethene	0.0541	0.999	0.0195			0.577	99% Chebyshev	2 of 19
Cobalt	6.318	10.3	2.81	13 (p)	13 (p)	6.808	95% Student's-t	36 of 36
Copper	18.7	200	4.59	61 (i)	28 (a)	41.87	95% Student's-t	36 of 36
Cyclohexane	0.0056	0.00185	0.000981			0.00185	Maximum*	5 of 19
Dibenz(a,h)anthracene	0.0384	0.404	0.045			0.177	99% Chebyshev	7 of 36
Dibenzofuran Diethyl Phthalate	0.0099 0.0097	0.0862 0.011	0.015 0.00992	100 (p)		0.0205 0.0118	95% Chebyshev 95% Student's-t	2 of 36 2 of 36
Di-n-butyl Phthalate	0.0057	0.011	0.00992	200 (p)		0.0118	95% Chebyshev	2 of 36
Di-n-octyl Phthalate	0.0115	0.123	0.0154	200 (p)		0.0264	95% Chebyshev	3 of 36
Ethylbenzene	0.0016	0.00502	0.00114			0.00502	Maximum*	5 of 19
Fluoranthene	0.146	2.19	0.0214			0.923	99% Chebyshev	9 of 36
Fluorene	0.0112	0.141	0.017	30 (i)		0.0282	95% Chebyshev	4 of 36
Indeno(1,2,3-cd)pyrene	0.133	1.51	0.02			0.577	99% Chebyshev	13 of 36
Iron	17531	102000	7120			21765	95% Student's-t	36 of 36
Lead	37.8	471	5.88	120 (p)	11 (a)	96.63	95% Chebyshev	36 of 36
Lithium	18.84	32.2	2.59	2 (p)		20.51	95% Student's-t	36 of 36
m,p-Xylene	0.002	0.00139	0.00132			0.00139	Maximum*	2 of 19
Manganese	347	1210	82.3	500 (p)	220 (p)	405.2	95% Approx. Gamma	36 of 36
Mercury	0.0094	0.064	0.0034	0.1 (i)		0.03	99% Chebyshev	13 of 36
Methylcyclohexane	0.0024	0.00278	0.0015			0.00278	Maximum*	6 of 19
Molybdenum	0.586	10.7	0.085	2 (p)		3.551	99% Chebyshev	21 of 36
Naphthalene Nickol	0.0236	0.148	0.0013			0.102	99% Chebyshev	6 of 19
Nickel Phenanthrene	17.17 0.0998	51.7 1.34	9.74 0.018	30 (p)	38 (p)	18.79 0.595	95% Student's-t 99% Chebyshev	36 of 36 10 of 36
Pyrene	0.0996	1.97	0.016			0.879	99% Chebyshev	11 of 36
Silver	0.143	0.41	0.0149	2 (p)		0.103	95% Student's-t	3 of 36
Strontium	56.15	96.2	22.1	2 (p) 		62.05	95% Student's-t	36 of 36
Tetrachloroethene	0.0127	0.223	0.00135			0.129	99% Chebyshev	3 of 19
Tin	0.47	3.67	0.68	50 (p)		0.926	95% Chebyshev	5 of 36
Titanium	20.83	57	3.41			24.83	95% Student's-t	36 of 36
Toluene	0.0046	0.0122	0.00134	200 (p)		0.0122	Maximum*	8 of 19
Vanadium	20.54	45.8	7.85	2 (p)	7.8 (a)	22.9	95% Student's-t	36 of 36
Xylene (total)	0.119	1.76	0.00139		`	0.372	95% Adjusted Gamma	8 of 19
Zinc	242.5	5640	21.1	120 (i)	46 (a)	1784	99% Chebyshev	36 of 36
LPAH	0.1806	2.103	0.07617		29 (i)	0.888		
HPAH	0.9853	13.673	0.3039		1.1 (m)	5.587		
Total PAH	1.1659	15.776	0.38007			6.475		1

- Notes:
  \* Recommended UCL exceeds maximum observation, so the maximum measured concentration was used as the EPC.
  + Soil was collected from 0 to 4 ft. below ground surface.

  \*\* Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.

- \*\* Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.

  (1) From Table 3-4 of TCEQ, 2006.

  (2) From www.epa.gov/ecotox/ecossl.

  (3) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

  (a) avian

  (i) soil invertebrate

  (m) mammal

- (p) plant

### TABLE 5 EXPOSURE POINT CONCENTRATION (mg/kg) **BACKGROUND SOIL+**

Chemicals of Interest**	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark <sup>(1)</sup>	EPA Ecological Screening Level <sup>(2)</sup>	95% UCL	Statistic Used <sup>(3)</sup>	# of Detects/# of Samples
Antimony	0.953	2.19	0.25	5 (p)	0.27 (m)	2.19	Maximum*	5 of 10
Arsenic	3.438	5.9	0.24	18 (p)	18 (p)	4.477	95% Student's-t	10 of 10
Barium	333.1	1130	150	330 (i)	330 (i)	502.3	95% Approx. Gamma	10 of 10
Benzo(a)anthracene	0.0116	0.082	0.082			0.0457	95% Chebyshev	1 of 10
Benzo(a)pyrene	0.0122	0.076	0.076			0.0431	95% Chebyshev	1 of 10
Benzo(b)fluoranthene	0.00941	0.057	0.057			0.0325	95% Chebyshev	1 of 10
Benzo(g,h,i)perylene	0.0241	0.083	0.083			0.0527	95% Chebyshev	1 of 10
Benzo(k)fluoranthene	0.0158	0.106	0.106			0.0595	95% Chebyshev	1 of 10
Cadmium	0.0311	0.11	0.041	32 (p)	0.36 (m)	0.11	Maximum*	3 of 10
Carbazole	0.00512	0.011	0.011			0.00636	95% Student's-t	1 of 10
Chromium	15.2	20.1	10.7	0.4 (i)	26 (a)	16.95	95% Student's-t	10 of 10
Chrysene	0.0145	0.083	0.083			0.0477	95% Chebyshev	1 of 10
Copper	12.12	19.3	7.68	61 (i)	28 (a)	14.41	95% Student's-t	10 of 10
Fluoranthene	0.0208	0.156	0.156			0.156	Maximum*	1 of 10
Indeno(1,2,3-cd)pyrene	0.0551	0.417	0.417			0.417	Maximum*	1 of 10
Lead	13.43	15.2	11	120 (p)	11 (a)	14.33	95% Student's-t	10 of 10
Lithium	21.14	32.5	14.4	2 (p)		24.13	95% Student's-t	10 of 10
Manganese	377.4	551	284	500 (p)	220 (p)	431.8	95% Student's-t	10 of 10
Mercury	0.0213	0.03	0.015	0.1 (i)		0.0241	95% Student's-t	10 of 10
Molybdenum	0.522	0.68	0.42	2 (p)		0.565	95% Student's-t	10 of 10
Phenanthrene	0.0167	0.137	0.137			0.137	Maximum*	1 of 10
Pyrene	0.0218	0.127	0.127			0.0728	95% Chebyshev	1 of 10
Zinc	247	969	36.6	120 (i)	46 (a)	969	Maximum*	10 of 10
LPAH	0.0167	0.137	0.137		29 (i)	0.137		
НРАН	0.18531	1.187	1.187		1.1 (m)	0.927		
Total PAH	0.20201	1.324	1.324			1.064		

- \* Recommended UCL exceeds maximum observation, so the maximum measured concentration was used as the EPC.
- + Soil was collected from 0 to 4 ft. below ground surface.

  \*\* Chemicals of interest are any chemical measured in at least one sample.
- (1) From Table 3-4 of TCEQ, 2006.
- (2) From www.epa.gov/ecotox/ecossl.
- (3) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.
- (a) avian
- (i) soil invertebrate
- (m) mammal
- (p) plant

# TABLE 6 EXPOSURE POINT CONCENTRATION (mg/kg) INTRACOASTAL WATERWAY SEDIMENT

Chemicals of Interest*	Average	Max Detection	Min Detection	TCEQ Marine Sediment PCL (1)	TCEQ Second Effects Level for Sediment <sup>(2)</sup>	SEL (3)	EPA EcoTox Threshold <sup>(4)</sup>	95% UCL	Statistic Used <sup>(5)</sup>	# of Detects/# of Samples
1,2-Dichloroethane	4.10E-04	3.02E-03	3.02E-03	4.30E+00	2.58E+01	1.51E+01		1.10E-03	95% Chebyshev	1 of 16
1,2-Diphenylhydrazine/azobenzene	7.30E-03	3.17E-02	3.17E-02					1.03E-02	95% Student's-t	1 of 16
2-Methylnaphthalene	8.30E-03	1.88E-02	1.88E-02	7.00E-02	6.70E-01	3.70E-01		9.60E-03	95% Student's-t	1 of 16
3,3'-Dichlorobenzidine	4.08E-02	1.51E-01	1.51E-01					5.38E-02	95% Student's-t	1 of 16
4,4'-DDT	4.11E-04	3.32E-03	4.81E-04	1.19E-03	6.29E-02	3.20E-02	1.60E-03	2.30E-03	99% Chebyshev	4 of 17
4,6-Dinitro-2-methylphenol	1.70E-02	6.27E-02	6.27E-02					2.24E-02	95% Student's-t	1 of 16
Acenaphthylene	1.16E-02	6.31E-02	2.39E-02	1.60E-02	5.00E-01	2.58E-01	1.10E+00	2.73E-02	95% Chebyshev	2 of 16
Aluminum	6.85E+03	1.25E+04	3.90E+03					7.88E+03	95% Student's-t	16 of 16
Anthracene	2.01E-02	7.53E-02	2.36E-02	8.53E-02	1.10E+00	5.93E-01		4.24E-02	95% Chebyshev	6 of 16
Antimony	2.25E+00	8.14E+00	7.40E-01					2.99E+00	95% Approx. Gamma	16 of 16
Arsenic	4.03E+00	7.62E+00	2.41E+00	8.20E+00	7.00E+01	3.91E+01	8.20E+00	4.64E+00	95% Student's-t	16 of 16
Atrazine (Aatrex)	1.79E-02	8.14E-02	8.14E-02					2.54E-02	95% Student's-t	1 of 16
Barium	2.15E+02	3.77E+02	1.16E+02					2.43E+02	95% Approx. Gamma	16 of 16
Benzo(a)anthracene	4.54E-02	3.95E-01	6.75E-02	2.61E-01	1.60E+00	9.31E-01		3.01E-01	99% Chebyshev	3 of 16
Benzo(a)pyrene	6.61E-02	4.45E-01	5.25E-02	4.30E-01	1.60E+00	1.02E+00	4.30E-01	3.52E-01	99% Chebyshev	6 of 16
Benzo(b)fluoranthene	1.00E-01	6.11E-01	3.24E-02					4.91E-01	99% Chebyshev	9 of 16
Benzo(g,h,i)perylene	6.61E-02	4.42E-01	1.73E-02					3.57E-01	99% Chebyshev	7 of 16
Benzo(k)fluoranthene	5.89E-02	3.18E-01	4.74E-02					2.71E-01	99% Chebyshev	6 of 16
Beryllium	4.63E-01	8.20E-01	2.90E-01					5.28E-01	95% Student's-t	16 of 16
Boron	1.20E+01	2.72E+01	1.25E+01					2.72E+01	Maximum*	10 of 16
Butyl Benzyl Phthalate	2.08E-02	2.02E-01	2.02E-01				1.10E+01	7.35E-02	95% Chebyshev	1 of 16
Carbazole	1.51E-02	8.61E-02	1.95E-02					3.84E-02	95% Chebyshev	3 of 16
Chloroform	9.02E-04	5.27E-03	5.04E-03 5.01E+00	4.30E+00 8.10E+01	2.58E+01	1.51E+01		5.00E-03	99% Chebyshev	2 of 16
Chromium	9.21E+00	1.44E+01	5.01E+00 1.37E-02		3.70E+02	2.26E+02	8.10E+01	1.04E+01	95% Student's-t	16 of 16
Chrysene	7.74E-02	4.75E-01 7.16E+00		3.84E-01	2.80E+00	1.59E+00		1.53E-01 4.88E+00	95% Approx. Gamma 95% Student's-t	10 of 16
Cobalt	4.39E+00 7.11E+00		3.05E+00	3.40E+01	2.70E+02	1.52E+02	3.40E+01			16 of 16 16 of 16
Copper	2.30E-03	1.26E+01 1.92E-03	3.28E+00 1.92E-03	3.40E+01	2.70E+02	1.52E+02	3.40E+01	8.43E+00 2.90E-03	95% Student's-t 95% Approx. Gamma	1 of 16
Cyclohexane Dibenz(a,h)anthracene	4.35E-02	2.35E-01	5.11E-02	6.34E-02	2.60E-01	1.62E-01		2.90E-03 2.05E-01	99% Chebyshev	6 of 16
Dibenz(a,n)anthracene Dibenzofuran	4.35E-02 1.23E-02	3.05E-01	2.68E-02	6.34E-02	2.60E-01	1.62E-01	2.00E+00	1.52E-02	95% Student's-t	2 of 16
Diethyl Phthalate	1.35E-02	3.89E-02	3.89E-02				6.30E-01	1.66E-02	95% Student's-t	1 of 16
Di-n-octyl Phthalate	1.80E-02	1.92E-01	1.47E-02				0.30L-01	6.86E-02	95% Chebyshev	2 of 16
Fluoranthene	1.13E-01	8.04E-01	2.22E-02	6.00E-01	5.10E+00	2.85E+00	1.40E+00	6.14E-01	99% Chebyshev	8 of 16
Fluorene	1.22E-02	4.60E-02	1.24E-02	1.90E-02	5.40E-01	2.80E-01	5.40E-01	2.43E-02	95% Chebyshev	4 of 16
gamma-Chlordane	3.13E-04	8.26E-04	6.38E-04	2.26E-03	4.79E-03	3.53E-03		5.70E-04	95% Chebyshev	4 of 16
Hexachlorobenzene	1.00E-02	3.19E-02	3.19E-02		4.73E-03			1.26E-02	95% Student's-t	1 of 16
Indeno(1,2,3-cd)pyrene	7.22E-02	4.05E-01	5.56E-02					3.47E-01	99% Chebyshev	6 of 16
Iron	1.34E+04	2.82E+04	6.75E+03					1.60E+04	95% Approx. Gamma	16 of 16
Lead	1.16E+01	3.23E+01	5.00E+00	4.67E+01	2.18E+02	1.32E+02	4.70E+01	1.48E+01	95% Approx. Gamma	16 of 16
Isopropylbenzene (cumene)	1.00E-03	7.04E-03	4.64E-03					5.80E-03	99% Chebyshev	2 of 16
Lithium	1.05E+01	2.00E+01	6.40E+00					1.21E+01	95% Student's-t	16 of 16
Manganese	2.83E+02	4.74E+02	1.92E+02					3.22E+02	95% Student's-t	16 of 16
Mercury	2.01E-02	3.60E-02	1.10E-02	1.50E-01	7.10E-01	4.30E-01	1.50E-01	2.33E-02	95% Student's-t	16 of 16
Methylcyclohexane	9.51E-04	3.70E-03	3.70E-03					1.30E-03	95% Approx. Gamma	1 of 16
Molybdenum	6.67E-01	5.66E+00	1.40E-01					2.15E+00	95% Chebyshev	16 of 16
Nickel	9.59E+00	1.67E+01	5.80E+00	2.09E+01	5.16E+01	3.63E+01	2.10E+01	1.08E+01	95% Student's-t	16 of 16
n-Nitrosodiphenylamine	1.02E-02	4.34E-02	4.34E-02					1.41E-02	95% Student's-t	1 of 16
Phenanthrene	7.46E-02	5.08E-01	3.11E-02	2.40E-01	1.50E+00	8.70E-01	1.10E+00	3.88E-01	99% Chebyshev	8 of 16
Pyrene	1.30E-01	8.62E-01	1.76E-02	6.65E-01	2.60E+00	1.63E+00	6.60E-01	6.78E-01	99% Chebyshev	10 of 16
Silver	1.72E-01	5.40E-01	3.00E-01					3.76E-01	Maximum*	6 of 16
Strontium	4.49E+01	8.17E+01	3.28E+01					5.12E+01	95% Student's-t	16 of 16
Titanium	2.56E+01	3.66E+01	1.91E+01					2.78E+01	95% Student's-t	16 of 16
Toluene	1.40E-03	5.81E-03	5.81E-03	9.40E-01	5.66E+00	3.30E+00	6.70E-01	2.00E-03	95% Approx. Gamma	1 of 16
Vanadium	1.39E+01	2.12E+01	9.06E+00					1.54E+01	95% Student's-t	16 of 16
Zinc	4.54E+01	9.26E+01	1.80E+01	1.50E+02	4.10E+02	2.80E+02	1.50E+02	5.41E+01	95% Student's-t	16 of 16
LPAH	1.27E-01	7.11E-01	1.10E-01	5.52E-01	3.16E+00	1.86E+00		4.92E-01		
HPAH	7.73E-01	4.99E+00	3.77E-01	1.70E+00	9.60E+00	5.65E+00		3.77E+00		
Total PAHs	8.99E-01	5.70E+00	4.87E-01	4.02E+00	4.48E+01	2.44E+01	4.00E+00	4.26E+00		

- Notes:

  \*Recommended UCL exceeds maximum observation so the maximum measured concentration was used as the EPC.

  \*Chemicals of interest are any chemical measured in at least one sample.

  (1) From Table 3-3 of TCEQ, 2006.

  (2) From Table A-2 of TCEQ, 2006.

  (3) Midpoint between Sediment PCL and SEL as per memo received on January 24, 2008 from TCEQ.

  (4) From Table 2 of EPAS ECOTOX Threshold ECO Update January, 2006.

  (5) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

TABLE 7
EXPOSURE POINT CONCENTRATION (mg/kg)
INTRACOASTAL WATERWAY BACKGROUND SEDIMENT

					TCEQ Second Effects Level for	Average of TCEQ PCL and	EPA EcoTox		Statistic	# of Detects/#
Chemicals of Interest <sup>+</sup>	Average	Max Detection	Min Detection	Sediment PCL (1)	Sediment (2)	SEL (3)	Threshold (4)	95% UCL	Used <sup>(5)</sup>	of Samples
1,2,4-Trimethylbenzene	9.10E-04	3.91E-03	3.91E-03	2.16E+00	1.30E+01	7.56E+00		2.00E-03	95% Approx. Gamma	1 of 9
1,4-Dichlorobenzene	1.40E-03	4.11E-03	4.11E-03	7.00E-01	4.21E+00	2.46E+00	3.50E-01	2.80E-03	95% Approx. Gamma	1 of 9
2-Butanone	1.10E-03	2.16E-03	2.00E-03					1.70E-03	95% Student's-t	2 of 9
4,4'-DDT	1.56E-04	5.70E-04	5.70E-04	1.19E-03	6.29E-02	3.20E-02	1.60E-03	3.82E-04	95% Chebyshev	1 of 9
Aluminum	1.22E+04	2.18E+04	4.73E+03					1.65E+04	95% Student's-t	9 of 9
Antimony	4.02E+00	7.33E+00	1.68E+00					5.40E+00	95% Student's-t	9 of 9
Arsenic	5.81E+00	9.62E+00	2.36E+00	8.20E+00	7.00E+01	3.91E+01	8.20E+00	7.74E+00	95% Student's-t	9 of 9
Barium	209.7.2	2.80E+02	1.11E+02					2.39E+02	95% Student's-t	9 of 9
Benzo(b)fluoranthene	8.70E-03	3.69E-02	3.69E-02					2.41E-02	95% Chebyshev	1 of 9
Beryllium	7.66E-01	1.32E+00	3.20E-01					1.02E+00	95% Student's-t	9 of 9
Boron	2.76E+01	4.79E+01	1.33E+01					3.56E+01	95% Student's-t	9 of 9
Carbon Disulfide	1.50E-03	8.41E-03	3.41E-03					4.80E-03	95% Approx. Gamma	2 of 9
Chromium	1.28E+01	2.25E+01	5.81E+00	8.10E+01	3.70E+02	2.26E+02	8.10E+01	1.69E+01	95% Student's-t	9 of 9
cis-1,2-Dichloroethene	3.40E-03	2.84E-02	2.84E-02					3.45E-02	99% Chebyshev	1 of 9
Cobalt	6.70E+00	1.18E+01	3.32E+00					8.66E+00	95% Student's-t	9 of 9
Copper	8.14E+00	1.68E+01	2.68E+00	3.40E+01	2.70E+02	1.52E+02	3.40E+01	1.13E+01	95% Student's-t	9 of 9
Iron	1.65E+04	2.79E+04	7.44E+03					2.15E+04	95% Student's-t	9 of 9
Lead	9.59E+00	1.45E+01	5.34E+00	4.67E+01	2.18E+02	1.32E+02	4.70E+01	1.18E+01	95% Student's-t	9 of 9
Lithium	2.14E+01	4.46E+01	7.29E+00					3.03E+01	95% Student's-t	9 of 9
Manganese	3.31E+02	4.42E+02	2.12E+02					3.86E+02	95% Student's-t	9 of 9
Mercury	1.76E-02	5.00E-02	6.50E-03	1.50E-01	7.10E-01	4.30E-01	1.50E-01	2.73E-02	95% Approx. Gamma	9 of 9
Molybdenum	2.41E-01	3.50E-01	1.60E-01					2.83E-01	95% Student's-t	9 of 9
Nickel	1.49E+01	2.73E+01	6.31E+00	2.09E+01	5.16E+01	3.63E+01	2.10E+01	1.99E+01	95% Student's-t	9 of 9
Strontium	5.92E+01	8.74E+01	3.48E+01					7.28E+01	95% Student's-t	9 of 9
Titanium	3.18E+01	5.45E+01	2.11E+01					3.83E+01	95% Student's-t	9 of 9
Trichloroethene	2.10E-03	1.59E-02	1.59E-02	1.47E+00	8.82E+00	5.15E+00	1.60E+00	4.30E-03	99% Chebyshev	1 of 9
Vanadium	2.02E+01	3.42E+01	1.02E+01					2.59E+01	95% Student's-t	9 of 9
Xylene	1.70E-03	3.35E-03	3.35E-03					2.60E-03	95% Student's-t	1 of 9
Zinc	3.60E+01	5.41E+01	1.93E+01	1.50E+02	4.10E+02	2.80E+02	1.50E+02	4.45E+01	95% Student's-t	9 of 9
LPAH <sup>++</sup>				5.52E-01	3.16E+00	1.86E+00				
HPAH	8.70E-03	3.69E-02	3.69E-02	1.70E+00	9.60E+00	5.65E+00		2.41E-02		
Total PAHs	8.70E-03	3.69E-02	3.69E-02	4.02E+00	4.48E+01	2.44E+01		2.41E-02		

- (1) From Table 3-3 of TCEQ, 2006.
- (2) From Table A-2 of TCEQ, 2006.
- (3) Midpoint between Sediment PCL and SEL as per memo received on January 24, 2008 from TCEQ.
- (4) From Table 2 of EPA's EcoTox Threshold ECO Update January, 2006.
- (5) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

<sup>&</sup>lt;sup>+</sup> Chemicals of interest are any chemical measured in at least one sample.

<sup>\*\*</sup> No LPAHs were detected in the samples.

# TABLE 8 EXPOSURE POINT CONCENTRATION (mg/kg) WETLAND SEDIMENT

Chemicals of Interest <sup>+</sup>	Average	Max Detection	Min Detection	TCEQ Marine Sediment PCL (1)	TCEQ Second Effects Level for Sediment (2)	Average of TCEQ PCL and SEL (3)	EPA EcoTox Threshold (4)	95% UCL	Statistic Used <sup>(5)</sup>	# of Detects/#
1.2-Dichloroethane	2.49E-04	2.40E-03	1.83E-03	4.30E+00	2.58E+01	1.51E+01		5.90E-04	95% Chebyshev	3 of 48
-,		4.30E-03	1.83E-03 1.22E-02	7.00E-02	6.70E-01	3.70E-01				4 of 48
2-Methylnaphthalene	2.46E-02			1.19E-03	6.29E-02	3.20E-02	1.60E-03	1.16E-01	99% Chebyshev	
4,4'-DDT	9.52E-04 1.95E-02	9.22E-03 1.33E-01	9.29E-04 1.60E-02	1.19E-03 1.60E-02	5.00E-01	3.20E-02 2.58E-01	1.00E-03 1.10E+00	2.20E-03 6.40E-02	97.5% Chebyshev 99% Chebyshev	16 of 55 4 of 48
Acenaphthene		5.45E-01	2.91E-02	4.40E-02	6.40E-01	3.42E-01	1.10E+00			4 of 48
Acenaphthylene Aluminum	3.14E-02 1.32E+04	1.82E+04	3.40E+03	4.40E-02	6.40E-01	3.42E-01		1.65E-01 1.40E+04	99% Chebyshev 95% Student's-t	48 of 48
Anthracene	2.88E-02	3.34E-01	8.38E-03	8.53E-02	1.10E+00	5.93E-01		1.40E+04 1.26E-01	99% Chebyshey	8 of 48
				8.53E-02	1.10E+00	5.93E-U1				
Antimony <sup>(6)</sup>	1.15E+00	4.24E+00	4.60E-01					1.61E+00	95% Chebyshev	40 of 48
Arsenic	2.53E+00	1.28E+01	1.00E+00	8.20E+00	7.00E+01	3.91E+01	8.20E+00	3.40E+00	95% Approx. Gamma	35 of 48
Barium	1.52E+02	8.20E+02	3.60E+01		4.005.00	 0.04E.04		2.38E+02	95% Chebyshev	48 of 48
Benzo(a)anthracene	5.43E-02 1.04E-01	9.93E-01 1.30E+00	5.46E-02 1.76E-02	2.61E-01 4.30E-01	1.60E+00 1.60E+00	9.31E-01 1.02E+00	4.30E-01	3.06E-01 4.76E-01	99% Chebyshev 99% Chebyshev	5 of 48 15 of 48
Benzo(a)pyrene	9.02E-02	1.30E+00 1.36E+00	1.76E-02 1.62E-02	4.30E-01	1.60E+00	1.02E+00	4.30E-01	4.76E-01 4.31E-01	99% Chebyshev 99% Chebyshev	
Benzo(b)fluoranthene										19 of 48
Benzo(g,h,i)perylene Benzo(k)fluoranthene	1.98E-01 6.59E-02	1.94E+00 7.30E-01	4.40E-02 6.92E-02					7.55E-01 2.37E-01	99% Chebyshev 99% Chebyshev	24 of 48 14 of 48
	8.94E-01									48 of 48
Beryllium (6)		1.37E+00	2.80E-01					9.43E-01	95% Student's-t	
Boron <sup>(6)</sup>	1.45E+01	4.62E+01	5.17E+00					3.20E+01	99% Chebyshev	24 of 48
Cadmium	1.03E-01	4.80E-01	3.30E-02	1.20E+00	9.60E+00	5.40E+00	1.20E+00	3.13E-01	99% Chebyshev	20 of 48
Carbazole	1.92E-02	1.41E-01	1.58E-02					6.45E-02	99% Chebyshev	5 of 48
Carbon Disulfide	5.25E-04	6.99E-03	3.34E-03					2.60E-03	99% Chebyshev	4 of 48
Chromium	1.51E+01	4.46E+01	8.96E+00	8.10E+01	3.70E+02	2.26E+02	8.10E+01	1.64E+01	95% Student's-t	48 of 48
Chromium VI	9.56E-01	4.04E+00	1.30E+00					3.36E+00	99% Chebyshev	6 of 25
Chrysene	2.17E-01	4.05E+00	1.10E-02	3.84E-01	2.80E+00	1.59E+00		1.24E+00	99% Chebyshev	19 of 48
Cobalt	6.98E+00	9.89E+00	3.00E+00					7.32E+00	95% Student's-t	48 of 48
Copper	1.45E+01	4.90E+01	5.44E+00	3.40E+01	2.70E+02	1.52E+02	3.40E+01	1.66E+01	95% Student's-t	48 of 48
Dibenz(a,h)anthracene	2.03E-01	2.91E+00	1.29E-01	6.34E-02	2.60E-01	1.62E-01		1.10E+00	99% Chebyshev	6 of 48
Dibenzofuran	1.39E-02	8.00E-02	1.00E-02				2.00E+00	2.50E-02	95% Chebyshev	3 of 48
Endosulfan Sulfate	1.80E-03	6.00E-02	7.31E-03				5.40E-03	1.44E-02	99% Chebyshev	3 of 48
Endrin Aldehyde	1.00E-03	1.00E-02	5.66E-04					4.30E-03	99% Chebyshev	9 of 48
Endrin Ketone	7.85E-04	1.30E-02	3.29E-03		 5.40F.00			2.00E-03	95% Chebyshev	3 of 48
Fluoranthene	1.08E-01	2.17E+00	1.20E-02	6.00E-01	5.10E+00	2.85E+00	1.40E+00	6.37E-01	99% Chebyshev	13 of 48
Fluorene	1.86E-02	1.39E-01	1.50E-02	1.90E-02	5.40E-01	2.80E-01	5.40E-01	6.37E-02	99% Chebyshev	4 of 48
gamma-Chlordane	4.05E-04	3.60E-03	7.69E-04	2.26E-03	4.79E-03	3.53E-03		8.27E-04	95% Chebyshev	4 of 48
Indeno(1,2,3-cd)pyrene	2.01E-01	1.94E+00	6.28E-02					7.85E-01	99% Chebyshev	23 of 48
Iron	1.72E+04	6.09E+04	1.11E+04	4.075.04	0.405.00	4.005.00	4.705 - 04	1.88E+04	95% Student's-t	49 of 48
Lead	2.54E+01 1.87E+01	2.37E+02 2.76E+01	9.40E+00	4.67E+01	2.18E+02	1.32E+02	4.70E+01	4.68E+01 1.96E+01	95% Chebyshev	48 of 48 48 of 48
Lithium			5.43E+00						95% Student's-t	
Manganese	3.32E+02 1.99E-02	1.01E+03 8.10E-02	8.76E+01 6.10E-03	1.50E-01	7.10E-01	4.30E-01	1.50E-01	3.83E+02 2.68E-02	95% Approx. Gamma 95% H-UCL	48 of 48 26 of 48
Mercury	1.99E-02 5.81E-01		6.10E-03 1.30E-01	1.50E-01	7.10E-01	4.30E-01	1.50E-01	7.63E-02		26 of 48 38 of 48
Molybdenum	5.81E-01 1.73E+01	3.24E+00 2.77E+01	1.30E-01 1.09E+01	2.09E+01	5.16E+01	3.63E+01	2.10E+01	7.63E-01 1.81E+01	95% Approx. Gamma 95% Student's-t	38 of 48 48 of 48
Nickel Phenanthrene	7.61E-02	2.77E+01 1.30E+00	1.09E+01 2.30E-02	2.40E-01	1.50E+00	8.70E-01	1.10E+01	1.81E+01 4.32E-01	95% Student's-t 99% Chebyshev	48 of 48 12 of 48
	7.61E-02 1.54E-01	1.30E+00 1.64E+00	2.30E-02 1.59E-02	2.40E-01 6.65E-01		8.70E-01 1.63E+00	1.10E+00 6.60E-01			12 of 48 19 of 48
Pyrene	1.54E-01 6.70E+01			6.65E-01	2.60E+00	1.63E+00	6.60E-01	6.63E-01	99% Chebyshev 95% H-UCL	
Strontium		3.30E+02	1.88E+01					7.64E+01		48 of 48
Tin <sup>(6)</sup>	6.38E-01	4.61E+00	3.45E+00					1.26E+00	95% Chebyshev	4 of 48
Titanium	2.91E+01	6.87E+01	8.15E+00		 F CCF - 00	2.205.00	 C 70E 04	3.27E+01	95% Approx. Gamma	48 of 48
Toluene	6.55E-04	2.14E-03	1.57E-03	9.40E-01	5.66E+00	3.30E+00	6.70E-01	1.20E-03	95% Chebyshev	3 of 48
Vanadium	2.17E+01	3.20E+01	9.02E+00	1.50E+02	4.10E+02	2.005.02	4.505.00	2.28E+01	95% Student's-t	48 of 48
Zinc	1.39E+02	9.03E+02	3.15E+01			2.80E+02	1.50E+02	2.36E+02	95% Chebyshev	53 of 53
LPAH	1.99E-01	2.88E+00	1.04E-01	5.52E-01	3.16E+00	1.86E+00		9.67E-01		1
HPAH	1.40E+00	1.90E+01	4.32E-01	1.70E+00	9.60E+00	5.65E+00		6.63E+00		
TOTAL PAHs	1.59E+00	2.19E+01	5.36E-01	4.02E+00	4.48E+01	1.18E+01	4.00E+00	7.60E+00		

- <sup>+</sup> Chemicals of interest are any chemical measured in at least one sample at a frequency of detection greater than five percent.
- (1) From Table 3-3 of TCEQ, 2006.
- (2) From Table A-2 of TCEQ, 2006.
- (3) Midpoint between Sediment PCL and SEL as per memo received on January 24, 2008 from TCEQ.

- (3) Midpoint between Sediment PCL and SEL as per memo received on January 24, 2008 from TCEQ.

  (4) From Table 2 of EPAS ECOTAX Threshold ECO Update January, 2006.

  (5) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

  (6) Samples 2WSED8, SWSED10, 4WSED2, and 4WSED3 were re-analyzed for antimony, boron, and tin because they were measured at concentrations much higher than the rest of the data although OA/QC indicated that they were acceptable. The re-analysis was run twice with good concurrence between the two re-analyses but with very different values from the original so the first re-analyzed value was used in the UCL calculation.

# TABLE 9 EXPOSURE POINT CONCENTRATION (mg/kg) POND SEDIMENT

				TCEQ Marine	TCEQ Second Effects Level	Average of TCEQ PCL and	ЕРА ЕсоТох		Statistic	
Chemicals of Interest*	Average	Max Detection	Min Detection		for Sediment (2)	SEL (3)	Threshold (4)	RME EPC	Used <sup>(5)</sup>	# of Detects/# of Samples
2,4,6-Trichlorophenol	1.75E-02	4.29E-02	4.29E-02					4.29E-02	RME EPC is max detect	1 of 8
4,4'-DDD	6.96E-03	6.76E-04	6.76E-04	1.22E-03	7.81E-03	4.52E-03		6.76E-04	RME EPC is max detect*	3 of 8
4,4'-DDT	4.16E-03	1.57E-03	1.11E-03	1.19E-03	6.29E-02	3.20E-02	1.60E-03	1.57E-03	RME EPC is max detect*	1 of 8
Acetone	2.38E-02	7.98E-02	7.98E-02	1.67E+02	1.00E+04	5.09E+03		7.98E-02	RME EPC is max detect	1 of 8
Aluminum	1.17E+04	1.63E+04	7.99E+03					1.63E+04	RME EPC is max detect	8 of 8
Antimony	7.95E-01	1.85E+00	3.30E-01					1.85E+00	RME EPC is max detect	8 of 8
Arsenic	1.74E+00	5.01E+00	3.39E+00	8.20E+00	7.00E+01	3.91E+01	8.20E+00	5.01E+00	RME EPC is max detect	3 of 8
Barium	1.99E+02	4.17E+02	1.08E+02					4.17E+02	RME EPC is max detect	8 of 8
Benzo(b)fluoranthene	4.77E-02	1.06E-01	2.93E-02					1.06E-01	RME EPC is max detect	6 of 8
Benzo(g,h,i)perylene	2.40E-02	1.35E-01	1.35E-01					1.35E-01	RME EPC is max detect	1 of 8
Benzo(k)fluoranthene	5.27E-02	1.30E-01	1.10E-01					1.30E-01	RME EPC is max detect	3 of 8
Beryllium	8.34E-01	1.13E+00	5.80E-01					1.13E+00	RME EPC is max detect	8 of 8
beta-BHC	7.96E-03	6.99E-04	6.99E-04					7.00E-04	RME EPC is max detect*	1 of 8
Boron	1.50E+01	2.84E+01	1.10E+01					2.84E+01	RME EPC is max detect	5 of 8
Bromomethane	8.90E-03	3.10E-02	1.40E-02					3.10E-02	RME EPC is max detect	2 of 8
Cadmium	1.47E-01	2.70E-01	1.90E-01	1.20E+00	9.60E+00	5.40E+00	1.20E+00	2.70E-01	RME EPC is max detect	5 of 8
Carbon Disulfide	1.40E-03	7.71E-03	7.71E-03					7.70E-03	RME EPC is max detect	1 of 8
Chromium	1.29E+01	2.01E+01	8.29E+00	8.10E+01	3.70E+02	2.26E+02	8.10E+01	2.01E+01	RME EPC is max detect	8 of 8
Chrysene	9.50E-03	2.57E-02	2.57E-02	3.84E-01	2.80E+00	1.59E+00		2.57E-02	RME EPC is max detect	1 of 8
Cobalt	6.94E+00	8.99E+00	5.19E+00					8.99E+00	RME EPC is max detect	8 of 8
Copper	1.52E+01	2.68E+01	8.33E+00	3.40E+01	2.70E+02	1.52E+02	3.40E+01	2.68E+01	RME EPC is max detect	8 of 8
Iron	1.53E+04	2.01E+04	1.13E+04					2.01E+04	RME EPC is max detect	8 of 8
Lead	1.75E+01	3.05E+01	1.06E+01	4.67E+01	2.18E+02	1.32E+02	4.70E+01	3.05E+01	RME EPC is max detect	8 of 8
Lithium	1.85E+01	2.37E+01	1.35E+01					2.37E+01	RME EPC is max detect	8 of 8
m,p-Cresol	1.49E-02	3.75E-02	3.75E-02					3.75E-02	RME EPC is max detect	1 of 8
Manganese	4.88E+02	7.11E+02	3.52E+02					7.11E+02	RME EPC is max detect	8 of 8
Methyl Iodide	8.10E-03	4.10E-02	4.10E-02					1.11E-02	RME EPC is max detect	1 of 8
Molybdenum	1.46E-01	6.00E-01	2.10E-01					6.00E-01	RME EPC is max detect	2 of 8
Nickel	1.63E+01	2.06E+01	1.23E+01	2.09E+01	5.16E+01	3.63E+01	2.10E+01	2.06E+01	RME EPC is max detect	8 of 8
Pyrene	1.47E-02	2.65E-02	2.01E-02	6.65E-01	2.60E+00	1.63E+00	6.60E-01	2.65E-02	RME EPC is max detect	3 of 8
Strontium	1.04E+02	1.81E+02	6.33E+01					1.81E+02	RME EPC is max detect	8 of 8
Titanium	3.00E+01	4.05E+01	1.91E+01					4.05E+01	RME EPC is max detect	8 of 8
Vanadium	2.18E+01	2.74E+01	1.68E+01					2.74E+01	RME EPC is max detect	8 of 8
Zinc	3.32E+02	9.99E+02	3.82E+01	1.50E+02	4.10E+02	2.80E+02	1.50E+02	9.99E+02	RME EPC is max detect	8 of 8
LPAH <sup>++</sup>								İ		
HPAHs	1.49E-01	4.23E-01	3.20E-01	1.70E+00	9.60E+00	5.65E+00		4.23E-01		
Total PAHs	1.49E-01	1.49E-01	1.49E-01	4.02E+00	4.48E+01	2.44E+01	4.00E+00	4.23E-01		

- (1) From Table 3-3 of TCEQ, 2006.
- (2) From Table A-2 of TCEQ, 2006.
- (3) Midpoint between Sediment PCL and SEL as per memo received on January 24, 2008 from TCEQ.
- (4) From Table 2 of EPA's EcoTox Threshold ECO Update January, 2006.
- (5) Recommended exposure point concentration to be used based on data distribution per Pro UCL (see Appendix A). When the compound was not detected
- in a given sample, one-half of the sample detection limit was used as the proxy concentration for that sample.

<sup>\*</sup>The maximum detected value is sometimes lower than the average since 1/2 of the reporting limit was used as a proxy value when it was not detected, and because J flag data were used in the risk assessment

<sup>&</sup>lt;sup>+</sup> Chemicals of interest are any chemical measured in at least one sample.

<sup>\*\*</sup> No LPAHs were detected in the samples.

TABLE 10
EXPOSURE POINT CONCENTRATION (mg/L)
INTRACOASTAL WATERWAY SURFACE WATER (TOTAL)

				TCEQ Ecological Benchmark for	RME	Statistic	# of Dotooto#
Chemicals of Interest <sup>+</sup>	Average	Max Detection	Min Detection	Water <sup>(1)</sup>	EPC	Used	# of Detects/# of Samples
Acrylonitrile	9.38E-04	2.10E-03	2.10E-03	2.91E-01	2.10E-03	RME EPC is max detect	1 of 4
Aluminum	4.05E-01	5.50E-01	2.80E-01		5.50E-01	RME EPC is max detect	4 of 4
Barium	2.40E-02	2.60E-02	2.20E-02	2.50E+01	2.60E-02	RME EPC is max detect	4 of 4
Boron	4.69E+00	4.81E+00	4.60E+00		4.81E+00	RME EPC is max detect	4 of 4
Chromium	7.98E-02	1.20E-01	7.00E-02		1.20E-01	RME EPC is max detect	4 of 4
Copper	6.53E-03	1.10E-02	9.10E-03		1.10E-02	RME EPC is max detect	2 of 4
Iron	4.63E-01	5.90E-01	3.20E-01		5.90E-01	RME EPC is max detect	4 of 4
Lithium	2.53E-01	2.70E-01	2.20E-01		2.70E-01	RME EPC is max detect	4 of 4
Manganese	4.03E-02	4.80E-02	3.30E-02		4.80E-02	RME EPC is max detect	4 of 4
Silver	2.80E-03	3.70E-03	2.80E-03		3.70E-03	RME EPC is max detect	3 of 4
Strontium	7.22E+00	7.35E+00	6.95E+00		7.35E+00	RME EPC is max detect	4 of 4
Titanium	3.90E-03	5.70E-03	2.00E-03		5.70E-03	RME EPC is max detect	4 of 4
Vanadium	4.25E-02	6.10E-02	3.50E-02		6.10E-02	RME EPC is max detect	4 of 4

<sup>&</sup>lt;sup>+</sup> Chemicals of interest are any chemical measured in at least one sample.

<sup>(1) -</sup> From Table 3-2 of TCEQ, 2006 and only the TCEQ Ecological Benchmarks for Water without the "dissolved" notation were included in the table.

TABLE 11
EXPOSURE POINT CONCENTRATION (mg/L)
INTRACOASTAL WATERWAY BACKGROUND SURFACE WATER (TOTAL)

				1	1		1
				TCEQ			
				Ecological			
				Benchmark	RME		# of Detects/#
Chemicals of Interest <sup>+</sup>	Average	Max Detection	Min Detection	for Water (1)	EPC	Statistic Used	of Samples
4,4'-DDD	3.30E-06	7.62E-06	3.60E-06	2.50E-05	7.62E-06	RME EPC is max detect	2 of 4
4,4'-DDT	4.93E-06	1.30E-05	1.30E-05	1.00E-06	1.30E-05	RME EPC is max detect	1 of 4
Acetone	1.47E-03	4.52E-03	4.52E-03	2.82E+02	4.52E-03	RME EPC is max detect	1 of 4
Aldrin	9.24E-06	1.10E-05	4.40E-06	6.50E-04 (3)	1.10E-05	RME EPC is max detect	4 of 4
Aluminum	2.44E-01	4.00E-01	2.10E-01		4.00E-01	RME EPC is max detect	4 of 4
Barium	1.96E-02	2.00E-02	2.00E-02	2.50E+01	2.00E-02	RME EPC is max detect	4 of 4
Benzo(g,h,i)perylene	1.20E-04	2.02E-04	2.02E-04	3.00E-01 (3)	2.02E-04	RME EPC is max detect	1 of 4
Benzo(k)fluoranthene	1.73E-04	3.11E-04	3.11E-04	3.00E-01 (3)	3.11E-04	RME EPC is max detect	1 of 4
Bis(ethylhexyl) Phthalate	4.17E-03	1.97E-02	1.94E-02	3.60E-01 (2)	1.97E-02	RME EPC is max detect	2 of 4
Boron	4.38E+00	4.50E+00	4.27E+00		4.50E+00	RME EPC is max detect	4 of 4
Chromium	7.84E-02	7.90E-02	7.80E-02		7.90E-02	RME EPC is max detect	4 of 4
Chromium VI	6.20E-03	1.10E-02	1.10E-02		1.10E-02	RME EPC is max detect	1 of 4
Chrysene	1.61E-04	3.68E-04	3.68E-04	3.00E-01 (3)	3.68E-04	RME EPC is max detect	1 of 4
Di-n-butyl Phthalate	6.70E-04	1.42E-03	8.28E-04	5.00E-03	1.42E-03	RME EPC is max detect	2 of 4
Di-n-octyl Phthalate	2.65E-04	6.50E-04	6.50E-04	3.4E-03 (2)	6.50E-04	RME EPC is max detect	1 of 4
Iron	3.40E-01	4.30E-01	3.40E-01		4.30E-01	RME EPC is max detect	4 of 4
Lithium	3.00E-01	3.40E-01	2.70E-01		3.40E-01	RME EPC is max detect	4 of 4
Manganese	3.60E-02	4.10E-02	3.40E-02		4.10E-02	RME EPC is max detect	4 of 4
Methoxyclor	3.66E-06	1.40E-05	1.40E-05	3.00E-05	1.40E-05	RME EPC is max detect	1 of 4
Molybdenum	2.72E-03	4.20E-03	1.80E-03		4.20E-03	RME EPC is max detect	2 of 4
Silver	5.43E-03	5.90E-03	4.70E-03		5.90E-03	RME EPC is max detect	4 of 4
Strontium	7.76E+00	8.31E+00	7.31E+00		8.31E+00	RME EPC is max detect	4 of 4
Titanium	2.98E-03	4.20E-03	2.40E-03		4.20E-03	RME EPC is max detect	4 of 4
Vanadium	4.14E-02	3.70E-02	1.10E-02		3.70E-02	RME EPC is max detect	4 of 4
LPAHs <sup>++</sup>							
HPAHs	4.55E-04	8.81E-04	8.81E-04	3.00E-01 (3)	8.81E-04		
Total PAHs	4.55E-04	4.55E-04	4.55E-04	3.00E-01 (3)	4.55E-04		

- (1) From Table 3-2 of TCEQ, 2006 and only the TCEQ Ecological Benchmarks for Water without the "dissolved" notation were included in the table.
- (2) Buchman, 2008.
- (3) Buchman, 2008 acute value for chemical class.

<sup>&</sup>lt;sup>+</sup> Chemicals of interest are any chemical measured in at least one sample.

<sup>\*\*</sup> No LPAHs were detected in the samples.

TABLE 12
EXPOSURE POINT CONCENTRATION (mg/L)
WETLAND SURFACE WATER (TOTAL)

Chemicals of Interest <sup>+</sup>	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark for Water <sup>(1)</sup>	RME EPC	Statistic Used	# of Detects/# of Samples
1,2-Dichloroethane	2.30E-03	3.85E-03	2.55E-03	5.65E+00	3.85E-03	RME EPC is max detect	3 of 4
Acrolein	1.21E-02	9.29E-03	9.29E-03	5.00E-03	9.30E-03	RME EPC is max detect*	1 of 4
Aluminum	5.08E-01	8.00E-01	1.70E-01		8.00E-01	RME EPC is max detect	4 of 4
Barium	2.20E-01	3.70E-01	1.50E-01	2.50E+01	3.70E-01	RME EPC is max detect	4 of 4
Boron	1.96E+00	2.42E+00	8.30E-01		2.42E+00	RME EPC is max detect	4 of 4
Chromium	1.49E-02	3.70E-02	2.00E-02		3.70E-02	RME EPC is max detect	2 of 4
Chromium VI	3.13E-03	8.00E-03	8.00E-03		8.00E-03	RME EPC is max detect	1 of 4
Copper	6.38E-03	1.10E-02	9.50E-03		1.10E-02	RME EPC is max detect	2 of 4
Iron	6.45E-01	1.08E+00	1.90E-01		1.08E+00	RME EPC is max detect	4 of 4
Lithium	1.89E-01	2.50E-01	5.70E-02		2.50E-01	RME EPC is max detect	4 of 4
Manganese	1.37E-01	3.40E-01	1.80E-02		3.40E-01	RME EPC is max detect	4 of 4
Mercury	3.75E-05	7.00E-05	4.00E-05		7.00E-05	RME EPC is max detect	2 of 4
Molybdenum	9.30E-03	1.50E-02	5.60E-03		1.50E-02	RME EPC is max detect	3 of 4
Nickel	1.10E-03	2.20E-03	1.20E-03		2.20E-03	RME EPC is max detect	2 of 4
Strontium	5.27E+00	6.64E+00	1.87E+00		6.64E+00	RME EPC is max detect	4 of 4
Titanium	6.40E-03	9.80E-03	2.40E-03		9.80E-03	RME EPC is max detect	4 of 4
Zinc	7.30E-03	2.20E-02	2.20E-02		2.20E-02	RME EPC is max detect	1 of 4

<sup>\*</sup>The maximum detected value is sometimes lower than the average since 1/2 of the reporting limit was used as a proxy value when it was not detected, and because J flag data were used in the risk assessment.

<sup>&</sup>lt;sup>+</sup> Chemicals of interest are any chemical measured in at least one sample.

<sup>(1) -</sup> From Table 3-2 of TCEQ, 2006 and only the TCEQ Ecological Benchmarks for Water without the "dissolved" notation were included in the table.

#### TABLE 13 EXPOSURE POINT CONCENTRATION (mg/L) POND SURFACE WATER (TOTAL)

				TCEQ Ecological			
				Benchmark for	RME	Statistic	# of Detects/#
Chemicals of Interest <sup>+</sup>	Average	Max Detection	Min Detection	Water (1)	EPC	Used	of Samples
4-Chloroaniline	2.79E-04	8.23E-04	8.23E-04	1.29E-01 <sup>(2)</sup>	8.00E-04	RME EPC is max detect	1 of 6
Aluminum	9.13E-01	2.22E+00	4.10E-01		2.22E+00	RME EPC is max detect	5 of 6
Antimony	3.82E-03	7.60E-03	3.00E-03		7.60E-03	RME EPC is max detect	3 of 6
Arsenic	5.40E-03	1.30E-02	1.20E-02		1.30E-02	RME EPC is max detect	2 of 6
Barium	1.45E-01	1.90E-01	1.30E-01	2.50E+01	1.90E-01	RME EPC is max detect	6 of 6
Benzo(a)pyrene	1.12E-04	3.48E-04	3.48E-04	3.00E-01 (3)	3.00E-04	RME EPC is max detect	1 of 6
Benzo(b)fluoranthene	4.03E-04	1.81E-03	1.81E-03	3.00E-01 (3)	1.80E-03	RME EPC is max detect	1 of 6
Benzo(g,h,i)perylene	3.71E-04	1.73E-03	1.73E-03	3.00E-01 (3)	1.70E-03	RME EPC is max detect	1 of 6
Benzo(k)fluoranthene	2.06E-04	5.42E-04	5.42E-04	3.00E-01 (3)	5.00E-04	RME EPC is max detect	1 of 6
Bis(2-ethylhexyl)phthalate	1.92E-02	4.00E-02	2.90E-02	3.60E-01 (2)	4.00E-02	RME EPC is max detect	3 of 6
Boron	2.97E+00	3.52E+00	2.45E+00		3.52E+00	RME EPC is max detect	6 of 6
Chromium	8.50E-04	1.50E-03	1.50E-03		1.50E-03	RME EPC is max detect	1 of 6
Chromium VI	8.50E-03	1.60E-02	1.50E-02		1.60E-02	RME EPC is max detect	2 of 6
Chrysene	2.48E-04	7.10E-04	7.10E-04	3.00E-01 (3)	7.00E-04	RME EPC is max detect	1 of 6
Cobalt	9.12E-04	3.20E-03	5.20E-04		3.20E-03	RME EPC is max detect	2 of 6
Dibenz(a,h)anthracene	6.26E-04	3.04E-03	3.04E-03	3.00E-01 (3)	3.00E-03	RME EPC is max detect	1 of 6
Di-n-butyl Phthalate	3.12E-03	3.81E-03	1.07E-03	5.00E-03	3.80E-03	RME EPC is max detect	5 of 6
Indeno(1,2,3-cd)pyrene	6.73E-04	3.44E-03	3.44E-03	3.00E-01 (3)	3.40E-03	RME EPC is max detect	1 of 6
Iron	2.27E+00	6.67E+00	5.20E-01		6.67E+00	RME EPC is max detect	6 of 6
Lead	2.63E-03	1.10E-02	1.10E-02		1.10E-02	RME EPC is max detect	1 of 6
Lithium	1.16E-01	1.60E-01	6.70E-02		1.60E-01	RME EPC is max detect	6 of 6
Manganese	6.37E-01	1.44E+00	8.50E-02		1.44E+00	RME EPC is max detect	6 of 6
Molybdenum	8.73E-03	1.80E-02	1.30E-02		1.80E-02	RME EPC is max detect	3 of 6
Nickel	4.60E-03	7.90E-03	3.00E-03		7.90E-03	RME EPC is max detect	6 of 6
Selenium	4.26E-03	9.80E-03	9.80E-03	1.36E-01	9.80E-03	RME EPC is max detect	1 of 6
Silver	9.30E-03	1.50E-02	3.70E-03		1.50E-02	RME EPC is max detect	6 of 6
Strontium	4.47E+00	7.19E+00	1.77E+00		7.19E+00	RME EPC is max detect	6 of 6
Thallium	2.86E-03	7.70E-03	6.20E-03	2.13E-02	7.70E-03	RME EPC is max detect	2 of 6
Titanium	1.90E-02	4.40E-02	2.10E-03		4.40E-02	RME EPC is max detect	6 of 6
Vanadium	3.20E-03	8.40E-03	4.30E-03		8.40E-03	RME EPC is max detect	3 of 6
Zinc	1.20E-01	6.30E-01	2.70E-02		6.30E-01	RME EPC is max detect	3 of 6
LPAHs							
HPAHs	2.64E-03	1.16E-02	1.16E-02	3.00E-01 (3)	1.14E-02		
Total PAHs	2.64E-03	2.64E-03	2.64E-03	3.00E-01 (3)	2.64E-03		

- <sup>+</sup> Chemicals of interest are any chemical measured in at least one sample.
  (1) From Table 3-2 of TCEQ, 2006 and only the TCEQ Ecological Benchmarks for Water without the "dissolved" notation were included in the table.
- (2) Buchman, 2008.
- (3) Buchman, 2008 acute value for chemical class.

TABLE 14
EXPOSURE POINT CONCENTRATION (mg/L)
INTRACOASTAL WATERWAY SURFACE WATER (DISSOLVED METALS)

Chemicals of Interest <sup>+</sup>	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark for Water <sup>(1)</sup>	RME EPC	Statistic Used	# of Detects/# of Samples
Aluminum	6.48E-02	4.70E-02	4.70E-02		4.70E-02	RME EPC is max detect	1 of 4
Barium	2.63E-02	2.80E-02	2.30E-02	2.50E+01	2.80E-02	RME EPC is max detect	4 of 4
Boron	4.79E+00	4.99E+00	4.30E+00	1.20E+00 <sup>(2)</sup>	4.99E+00	RME EPC is max detect	4 of 4
Lithium	2.10E-01	2.20E-01	2.00E-01		2.20E-01	RME EPC is max detect	4 of 4
Manganese	4.85E-03	6.00E-03	2.50E-03	1.00E-01 <sup>(2)</sup>	6.00E-03	RME EPC is max detect	4 of 4
Nickel	2.63E-03	3.30E-03	1.30E-03	1.31E-02	3.30E-03	RME EPC is max detect	4 of 4
Selenium	4.25E-02	6.30E-02	2.80E-02	1.36E-01	6.30E-02	RME EPC is max detect	4 of 4
Strontium	8.04E+00	8.47E+00	7.36E+00		8.47E+00	RME EPC is max detect	4 of 4
			_				

- (1) From Table 3-2 of TCEQ.
- (2) Buchman, 2008.

<sup>&</sup>lt;sup>+</sup> Chemicals of interest are any chemical measured in at least one sample.

TABLE 15
EXPOSURE POINT CONCENTRATION (mg/L)
INTRACOASTAL WATERWAY BACKGROUND SURFACE WATER (DISSOLVED METALS)

Chemicals of Interest <sup>+</sup>	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark for Water	RME EPC	Statistic Used	# of Detects/# of Samples
Barium	1.65E-02	1.90E-02	1.20E-02	2.50E+01	1.90E-02	RME EPC is max detect	4 of 4
Boron	3.98E+00	4.33E+00	3.04E+00	1.20E+00 (2)	4.33E+00	RME EPC is max detect	4 of 4
Chromium	7.38E-02	7.80E-02	6.40E-02	1.03E-01	7.80E-02	RME EPC is max detect	4 of 4
Iron	5.40E-02	6.00E-02	6.00E-02	5.00E-02 (2)	6.00E-02	RME EPC is max detect	1 of 4
Lithium	2.90E-01	3.90E-01	1.90E-01		3.90E-01	RME EPC is max detect	4 of 4
Manganese	1.53E-02	1.80E-02	1.10E-02	1.00E-01 <sup>(2)</sup>	1.80E-02	RME EPC is max detect	4 of 4
Molybdenum	3.68E-03	3.90E-03	3.90E-03	2.30E-02 (2)	3.90E-03	RME EPC is max detect	1 of 4
Silver	5.23E-03	5.80E-03	4.30E-03	1.90E-04	5.80E-03	RME EPC is max detect	4 of 4
Strontium	6.84E+00	7.46E+00	5.20E+00		7.46E+00	RME EPC is max detect	4 of 4
Vanadium	1.23E-02	1.50E-02	9.30E-03	5.00E-02 <sup>(2)</sup>	1.50E-02	RME EPC is max detect	4 of 4

- <sup>+</sup> Chemicals of interest are any chemical measured in at least one sample.
- (1) From Table 3-2 of TCEQ.
- (2) Buchman, 2008.

TABLE 16
EXPOSURE POINT CONCENTRATION (mg/L)
WETLAND SURFACE WATER (DISSOLVED METALS)

Chemicals of Interest <sup>+</sup>	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark for Water <sup>(1)</sup>	RME EPC	Statistic Used	# of Detects/# of Samples
Barium	3.20E-04	3.50E-01	1.40E-01	2.50E+01	3.50E-01	RME EPC is max detect	4 of 4
Boron	2.70E-02	2.75E+00	8.50E-01	1.20E+00 (2)	2.75E+00	RME EPC is max detect	4 of 4
Chromium	1.20E-03	3.70E-02	1.90E-02	1.03E-01	3.70E-02	RME EPC is max detect	2 of 4
Copper	2.50E-03	1.10E-02	5.30E-03	3.60E-03	1.10E-02	RME EPC is max detect	3 of 4
Lithium	3.50E-03	2.80E-01	5.70E-02		2.80E-01	RME EPC is max detect	4 of 4
Manganese	6.00E-04	3.30E-01	2.50E-02	1.00E-01 <sup>(2)</sup>	3.30E-01	RME EPC is max detect	4 of 4
Molybdenum	2.70E-03	1.70E-02	5.40E-03	2.30E-02 (2)	1.70E-02	RME EPC is max detect	3 of 4
Nickel	4.50E-04	1.30E-03	4.90E-04	1.31E-02	1.30E-03	RME EPC is max detect	2 of 4
Strontium	9.40E-04	7.01E+00	1.89E+00		7.01E+00	RME EPC is max detect	4 of 4

<sup>&</sup>lt;sup>+</sup> Chemicals of interest are any chemical measured in at least one sample.

<sup>(1)</sup> From Table 3-2 of TCEQ, 2006.

<sup>(2) -</sup> Buchman, 2008.

TABLE 17
EXPOSURE POINT CONCENTRATION (mg/L)
POND SURFACE WATER (DISSOLVED METALS)

Chemicals of Interest <sup>+</sup>	Average	Max Detection	Min Detection	TCEQ Ecological Benchmark for Water <sup>(1)</sup>	RME EPC	Statistic Used	# of Detects/# of Samples
Antimony	3.50E-03	6.30E-03	3.10E-03	5.00E-01 <sup>(2)</sup>		RME EPC is max detect	3 of 6
Barium	1.25E-01	1.30E-01	1.20E-01	25		RME EPC is max detect	6 of 6
Boron	2.79E+00	3.33E+00	2.36E+00	1.20E+00 <sup>(2)</sup>		RME EPC is max detect	6 of 6
Lithium	1.45E-01	2.20E-01	8.00E-02			RME EPC is max detect	6 of 6
Manganese	4.65E-01	1.06E+00	6.60E-02	1.00E-01 <sup>(2)</sup>		RME EPC is max detect	6 of 6
Molybdenum	1.01E-02	1.90E-02	1.80E-02	2.30E-02 (2)		RME EPC is max detect	3 of 6
Nickel	1.43E-03	2.60E-03	1.90E-03	0.131		RME EPC is max detect	3 of 6
Silver	1.83E-03	2.90E-03	9.40E-04	0.00019		RME EPC is max detect	6 of 6
Strontium	4.32E+00	6.97E+00	1.78E+00			RME EPC is max detect	6 of 6
Thallium	1.53E-03	3.20E-03	1.40E-03	0.0213		RME EPC is max detect	3 of 6
Vanadium	7.58E-04	2.10E-03	2.10E-03	5.00E-02 <sup>(2)</sup>		RME EPC is max detect	1 of 6

<sup>&</sup>lt;sup>+</sup> Chemicals of interest are any chemical measured in at least one sample.

<sup>(1)</sup> From Table 3-2 of TCEQ, 2006.

<sup>(2) -</sup> Buchman, 2008.

TABLE 18
TERRESTRIAL HABITAT ASSESSMENT AND MEASUREMENT ENDPOINTS

Receptor Group	Receptor of Potential Concern	Assessment Endpoint for SLERA	Ecological Risk Question	Testable Hypothesis for SLERA	Measurement Endpoint
Invertebrates	Earthworm	Protection of soil invertebrate community from uptake and direct toxic effects on detritivore abundance, diversity, productivity due to chemicals in soil.	Does exposure to chemicals in soil adversely affect the abundance, diversity, productivity, and function?     Do soil-to-earthworm BAFs suggest uptake of chemicals?	Average and 95%UCL soil concentrations do not exceed screening criteria.	1) Comparison of average and 95% UCL concentration for each compound measured at the Site in soil to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate. 3) Evaluate likelihood of localized effects (maximum concentration).
Small mammalian herbivore	Deer mouse	Protection of the small mammal survival, growth, and reproduction due to uptake of chemicals in soil.	Does exposure to chemicals in soil adversely affect the survival, growth, and reproduction? 2) Do soil-to- mammal BAFs suggest uptake of chemicals?	Average and 95% UCL soil concentrations do not exceed screening criteria.	1) Comparison of average and 95% UCL concentration for each compound measured at the Site in soil to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Mammalian predator	Coyote	Protection of the mammalian predator survival, growth, and reproduction due to the uptake of chemicals in prey items.	Does exposure to chemicals in soil adversely affect the survival, growth, and reproduction? 2) Do soil-to- mammal BAFs suggest uptake of chemicals?	Average and 95% UCL soil concentrations do not exceed screening criteria.	1) Comparison of average and 95% UCL concentration for each compound measured at the Site in soil to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Reptilian predator	Rat snake	Protection of the reptilian predator survival, growth, and reproduction due to the uptake of chemicals in prey items.	Does exposure to chemicals in soil adversely affect the survival, growth, and reproduction? 2) Do soil-to- mammal BAFs suggest uptake of chemicals?	Average and 95% UCL soil concentrations do not exceed screening criteria.	1) Comparison of average and 95% UCL concentration for each compound measured at the Site in soil to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Avian herbivore/omnivore	American robin	Protection of the omnivorous avian survival, growth, and reproduction due to uptake of chemicals in soil.	Does exposure to chemicals in soil adversely affect the survival, growth, and reproduction? 2) Do soil-to- avian omnivore BAFs suggest uptake of chemicals?	Average and 95% UCL soil concentrations do not exceed screening criteria.	1) Comparison of average and 95% UCL concentration for each compound measured at the Site in soil to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Avian predator	Red-tailed hawk	community population abundance,	Does exposure to chemicals in soil adversely affect the survival, growth, and reproduction? 2) Do soil-to- higher trophic level BAFs suggest uptake of chemicals and/or bioaccumulation?	soil concentrations do	1) Comparison of average and 95% UCL concentration for each compound measured at the Site in soil to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.

SLERA -- Screening-Level Ecological Risk Assessment
BAF -- biota accumulation factor
BSAF -- biota to sediment accumulation factor

NOAEL -- no observable adverse effects level

95% UCL -- 95 percent upper confidence limit on the mean

TABLE 19
ESTUARINE WETLAND AND AQUATIC HABITAT ASSESSMENT AND MEASUREMENT ENDPOINTS

Receptor Group	Receptor of Potential Concern	Assessment Endpoint for SLERA	Ecological Risk Question	Testable Hypothesis for SLERA	Measurement Endpoint
Benthos and zooplankton	Polychaetes	Protection of benthic invertebrate community from uptake and direct toxic effects on abundance, diversity, and productivity due to chemicals in sediment.	1) Does exposure to chemicals in sediment adversely affect the abundance, diversity, productivity, and function? 2) Do sediment-to-biota BSAFs suggest uptake of chemicals?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.     Sevaluate likelihood of localized effects (maximum concentration).
Fish and shellfish	Fiddler crab	Protection of invertebrate community abundance, diversity, and productivity due to uptake of chemicals in sediment.	Does exposure to chemical in sediment adversely affect the survival, reproduction, or growth? 2) Do sediment-to-biota BSAFs suggest uptake of chemicals?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
	Killifish	Protection of localized herbivorous fish survival, growth, and reproduction due to uptake of chemicals in sediment and biota.	Does exposure to chemical in sediment adversely affect the survival, reproduction, or growth? 2) Do sediment-to-biota BSAFs suggest uptake of chemicals?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Carnivorous fish	Black drum	Protection of carnivorous fish survival, growth, and reproduction due to uptake of chemicals in sediment and prey items.	1) Does exposure to chemicals in sediment and/or prey items adversely affect the survival, growth, and reproduction of a first order carnivorous fish? 2) Do sediment-to-biota BSAFs suggest uptake of chemicals and/or bioaccumulation?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
	Spotted seatrout	Protection of carnivorous fish survival, growth, and reproduction due to uptake of chemicals in prey items.	1) Does exposure to chemicals in prey items adversely affect the survival, growth, and reproduction of a second order carnivorous fish? 2) Does sediment-to-biota BSAF suggest bioaccumulation?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Avian predator	Sandpiper	Protection of carnivorous avian survival, growth, and reproduction due to uptake of chemicals in sediment and prey items.	Does exposure to chemicals in sediment and/or prey items adversely affect the survival, growth,and reproduction of a first order carnivore? 2) Does sediment-to-biota BSAF suggestion uptake or bioaccumulation?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.
Notes:	Green heron	Protection of carnivorous avian survival, growth and reproduction due to uptake of chemicals in prey items.	Does exposure to chemicals in prey items adversely affect the survival, growth, and reproduction of a second order carnivore? 2) Does sediment-to-biota BSAF suggestion bioaccumulation?	Average and 95% UCL sediment concentrations do not exceed screening criteria.	Comparison of average and 95% UCL concentration for each compound measured at the Site in sediment to receptor-specific screening level based on NOAELs available in the literature. 2) Evaluate compound's ability to bioconcentrate.

SLERA -- Screening-Level Ecological Risk Assessment

BAF -- biota accumulation factor

BSAF -- biota to sediment accumulation factor

NOAEL -- no observable adverse effects level

95% UCL -- 95 percent upper confidence limit on the mean

TABLE 20 BACKGROUND COMPARISONS

CHEMICAL OF INTEREST*	SOUTH SURFACE SOIL	SOUTH SOIL	NORTH SURFACE SOIL	NORTH SOIL	ICWW SEDIMENT	WETLANDS SEDIMENT	POND SEDIMENT
Aluminum	NA	NA	NA	NA	Yes*	NA NA	NA
Antimony	No	No	No	No	Yes*	No	No
Arsenic	No	No	No	No	Yes*	No	Yes*
Barium	No	No	Yes*	Yes*	No	Yes*	No
Beryllium	NA	NA	NA	NA	Yes*	NA	NA
Boron	NA	NA	NA	NA	Yes*	NA	NA
Cadmium	No	No	Yes	Yes*	NA	Yes	Yes
Chromium	No	No	No	No	NA	No	No
Cobalt	NA	NA	NA NA	NA	Yes*	NA NA	NA
Copper	Yes	No	No	No	No	No	No
ron	NA NA	NA	NA NA	NA	No	NA	No
_ead	Yes	No	No	No	No	No	Yes
_ithium	Yes*	Yes*	Yes*	No	Yes*	No	No
Manganese	Yes*	Yes*	No	No	No	No	Yes
Mercury	No	No	Yes*	Yes*	No	No	NA NA
Molybdenum	Yes	No	No	No	No	No	Yes*
Nickel	NA NA	NA NA	NA NA	NA NA	No	NA NA	NA
vickei Strontium	NA NA	NA NA	NA NA	NA NA	Yes*	NA NA	NA NA
Fitanium	NA NA	NA NA	NA NA	NA NA	Yes*	NA NA	NA NA
/anadium	NA NA	NA NA	NA NA	NA NA	Yes*	NA NA	NA NA
Zinc	Yes	No No	No	NA No	No	No No	No

NA - No analysis was performed for compound in background.

 $<sup>^{(1)}</sup>$  Detailed statistical procedures are outlined in Section 2.7 and calculations are provided in Appendix B.

<sup>\*</sup> Statistical difference is due to background being greater than site.

<sup>&</sup>lt;sup>+</sup> Chemicals of interest are any chemical measured in at least one sample.

TABLE 21
COPECS IDENTIFIED IN STEP 1 AND QUANTITATIVELY EVALUATED IN STEP 2\*

SOUTH AREA SOIL	NORTH AREA SOIL	BACKGROUND AREA SOIL	ICWW SEDIMENT	BACKGROUND ICWW SEDIMENT	WETLANDS SEDIMENT	POND SEDIMENT
2-Methylnaphthalene 4,4-DDD 4,4'-DDE 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Boron Chrysene Cobalt Copper Dibenz(a,h)anthracene Dieldrin Endrin Aldehyde Endrin Ketone Fluoranthene Fluorene gamma-Chlordane Indeno(1,2,3-cd)pyrene Lead Molybdenum Naphthalene Nickel Phenanthrene Pyrene Vanadium Zinc LPAH HPAH TOTAL PAHs	2-Methylnaphthalene 4,4'-DDE 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(y,h,i)perylene Benzo(k)fluoranthene Boron Cadmium Chrysene Dibenz(a,h)anthracene Dieldrin Endrin Endrin Ketone Fluoranthene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Iron Naphthalene Nickel Phenanthrene Pyrene Vanadium LPAH HPAH TOTAL PAHs	Antimony Arsenic Barium Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Cadmium Chromium Chrysene Copper Fluoranthene Indeno(1,2,3-cd)pyrene Lead Lithium Manganese Mercury Molybdenum Phenanthrene Pyrene Zinc LPAH HPAH TOTAL PAHs	2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene gamma-Chlordane Hexachlorobenzene Indeno(1,2,3-cd)pyrene Phenanthrene Pyrene LPAH HPAH TOTAL PAHs	4,4'-DDT Arsenic Benzo(b)fluoranthene Copper Mercury Nickel Zinc LPAH HPAH TOTAL PAHS	2-Methylnaphthalene 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(g,h,i)perylene Benzo(k)fluoranthene Cadmium Chrysene Dibenz(a,h)anthracene Endosulfan Sulfate Endrin Aldehyde Endrin Ketone Fluoranthene Fluoranthene Fluorene gamma-Chlordane Indeno(1,2,3-cd)pyrene Nickel Phenanthrene Pyrene LPAH HPAH TOTAL PAHs	4,4'-DDD 4,4'-DDT Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Cadmium Chrysene Nickel Phenanthrene Pyrene LPAH HPAH TOTAL PAHs

<sup>\*</sup> Surface water is not included in the table because they were evaluated differently given the lack of screening criteria and toxicity reference values.

TABLE 22 TERRESTRIAL EXPOSURE PARAMETERS

PARAMETER	Deer	Mouse	Co	oyote	Rat	Snake	Americ	can Robin	Red-Ta	iled Hawk
PARAMETER	Value	Reference	Value	Reference	Value	Reference	Value	Reference	Value	Reference
Ingestion Rate for soil (kg/day)	2.13E-05	EPA, 1999*	NA		1.45E-04	EPA, 1993 <sup>+</sup>	1.14E-03	EPA, 1999*	NA	
Bioavailability Factor in soil (unitless)	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997
Area Use Factor (unitless)	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997
Body Weight (kg)	1.48E-02	EPA, 1999	1.55E+01	EPA, 1993	1.39E-01	EPA, 1993	8.00E-02	EPA, 1999	9.60E-01	EPA, 1999
Ingestion Rate for food (kg/day)	8.87E-03	EPA, 1999*	1.55	EPA, 1993*	2.78E-03	EPA, 1993*	3.52E-02	EPA, 1999*	1.78E-01	EPA, 1999*
Dietary Fraction for arthropods (unitless)	5.60E-01	EPA, 1993	NA		2.00E-01	EPA, 1993	4.60E-01	EPA, 1993	NA	
Dietary Fraction for plants, etc. (unitless)	4.40E-01	EPA, 1993	NA		NA		8.00E-02	EPA, 1993	NA	
Dietary Fraction of small mammals (unitless)	NA		7.50E-01	EPA, 1993	6.20E-01	EPA, 1993	NA		7.85E-01	EPA, 1993
Dietary Fraction of birds (unitless)	NA		2.50E-01	EPA, 1993	1.80E-01	EPA, 1993	NA		3.80E-01	EPA, 1993
Dietary Fraction of earthworms (unitless)	NA		NA	· ·	NA		4.60E-01	EPA, 1993	NA	
· · · · · ·								,		

\* Normalized for body weight. NA - not applicable.

<sup>\*</sup>Soil ingestion was assumed to be 5.2% of dietary intake per other reptiles listed in EPA, 1993.

TABLE 23
ESTUARINE WETLAND AND AQUATIC EXPOSURE PARAMETERS

PARAMETER	Fiddl	er Crab	Ki	llifish	Blac	k Drum	Spotte	d Seatrout	Sar	dpiper	Gree	n Heron
PARAMETER	Value	Reference	Value	Reference	Value	Reference	Value	Reference	Value	Reference	Value	Reference
Ingestion Rate for soil (kg/day)	1.16E-08	Cammen, 1979			2.60E-03	Neill, 1998+	NA		2.10E-02	EPA, 1993	NA	
Bioavailability Factor in soil (unitless)	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997
Area Use Factor (unitless)	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997	1	EPA, 1997
Body Weight (kg)	9.00E-03	*			1.24	Alcoa, 2000	1.00E+00	TPWD, 2009++	2.15E-01	Dunning, 1993	3.75E-01	Dunning, 1993
Ingestion Rate for food (kg/day)	1.16E-08	Cammen, 1979			2.60E-02	Neill, 1998	2.60E-02	Prof. Judg.**	1.08E-01	EPA, 1993	1.13E-01	EPA, 1993
Dietary Fraction for invertebrates (unitless)	1.00E+00	TPWD, 2009**			NA		NA		NA		NA	
Dietary Fraction for worms (unitless)	NA				3.33E-01	Prof. Judg.**	NA		6.00E-01	Prof. Judg.**	NA	
Dietary Fraction of crabs (unitless)	NA				3.33E-01	Prof. Judg.**	NA		4.00E-01	Prof. Judg.**	2.50E-01	Kent, 1986
Dietary Fraction of fish (unitless)	NA				3.33E-01	Prof. Judg.**	1.00E+00	TPWD, 2009++	NA		7.50E-01	Kent, 1986
, , ,												

NA - not applicable.

<sup>\*\*</sup> Estimated based on width/length equation for fiddler crabs.

\*\*Because of the lack of information on dietary fractions for different species, best professional judgment was used as the basis for the assumption.

<sup>\*</sup> Sediment ingestion was assumed to be 10% of dietary intake.

<sup>++</sup> http://www.tpwd.state.tx.us

TABLE 24 ECOLOGICAL HAZARD QUOTIENTS EXCEEDING ONE FOR THE SOUTH AREA

MEDIA	RECEPTOR	CHEMICAL OF POTENTIAL ECOLOGICAL CONCERN	TOXICITY VALUE	AVERAGE HQ	RME HQ
Soil	Earthworm	4,4'-DDD	NOAEL	1.78E-01	1.16E+00
		Zinc	NOAEL	3.62E+00	6.79E+00
	Deer Mouse	Aroclor-1254	NOAEL	5.07E-01	1.83E+00
		Copper	NOAEL	5.21E-01	1.01E+00
		Zinc	NOAEL	1.09E+00	2.05E+00
	Coyote	None	NOAEL		
	Rat Snake	None	NOAEL		
	American Robin	Aroclor-1254	NOAEL	5.32E-01	1.94E+00
		Lead	NOAEL	1.06E+00	1.61E+00
		Zinc	NOAEL	1.62E+00	2.95E+00
	Red-Tailed Hawk	None	NOAEL		
	Earthworm	Zinc	LOAEL	8.06E-01	1.52E+00
	Deer Mouse	None	LOAEL		
	Coyote	None	LOAEL		
	Rat Snake	None	LOAEL		
	American Robin	None	LOAEL		
	Red-Tailed Hawk	None	LOAEL		
Intracoastal Waterway	Capitella Capitata	4,4'-DDT	ERL	4.11E-01	2.30E+00
Sediment		Benzo(a)anthracene	ERL	1.74E-01	1.15E+00
		Dibenz(a,h)anthracene	ERL	6.86E-01	3.23E+00
		Fluoranthene	ERL	1.88E-01	1.02E+00
		Fluorene	ERL	6.42E-01	1.28E+00
		gamma-Chlordane	ERL	6.26E-01	1.14E+00
		Hexachlorobenzene	AET	1.67E+00	2.10E+00
		Phenanthrene	ERL	3.11E-01	1.62E+00
		Pyrene	ERL	1.95E-01	1.02E+00
		HPAH	ERL	4.54E-01	2.22E+00
		Total PAHs	ERL	2.24E-01	1.06E+00
	Capitella Capitata	None	ERM		
	Fiddler Crab	None	NOAEL		
	Black Drum	None	NOAEL		
	Spotted Seatrout	None	NOAEL		
	Sandpiper	None	NOAEL		
	Green Heron	None	NOAEL		

Notes:
AET - apparent effects threshold
ERL - effects range low
ERM - effects range medium
HQ - hazard quotient
LOAEL - lowest observable adverse effects level
NOAEL - no observable adverse effects level
RME - reasonable maximum exposure

TABLE 25
ECOLOGICAL HAZARD QUOTIENTS EXCEEDING ONE FOR THE NORTH AREA

MEDIA	RECEPTOR	CHEMICAL OF POTENTIAL ECOLOGICAL CONCERN	TOXICITY VALUE	AVERAGE HQ	RME HQ
Soil	Earthworm Deer Mouse Coyote	None <i>Dieldrin</i> None	NOAEL NOAEL NOAEL	1.60E-01	1.12E+00
	Rat Snake American Robin	None None	NOAEL NOAEL		
	Red-Tailed Hawk Earthworm	None None	NOAEL LOAEL		
	Deer Mouse	None	LOAEL		
	Coyote	None	LOAEL		
	Rat Snake	None	LOAEL		
	American Robin	None	LOAEL		
	Red-Tailed Hawk	None	LOAEL		
Wetlands Sediment	Capitella Capitata	2-Methylnaphthalene	ERL	2.84E-01	1.02E+00
		4,4'-DDT	ERL	9.07E-01	2.12E+00
		Acenaphthylene	ERL	1.02E+00	3.93E+00
		Acenaphthene Anthracene	ERL ERL	7.02E-01 3.92E-01	3.68E+00 1.57E+00
		Benzo(a)anthracene	ERL	2.36E-01	1.19E+00
		Benzo(a)pyrene	ERL	2.37E-01	1.09E+00
		Benzo(g,h,i)perylene	AET	2.90E-01	1.11E+00
		Chrysene	ERL	5.55E-01	3.17E+00
		Dibenz(a,h)anthracene	ERL	3.14E+00	1.70E+01
		Endrin Aldehyde	ERL	3.90E-01	1.10E+00
		Fluoranthene	ERL	1.77E-01	1.04E+00
		Fluorene	ERL	9.63E-01	3.29E+00
		gamma-Chlordane	ERL	7.76E-01	1.57E+00
		Indeno(1,2,3-cd)pyrene	AET	3.28E-01	1.28E+00
		Phenanthrene LPAH	ERL	3.16E-01	1.77E+00
		LPAH HPAH	ERL ERL	3.58E-01 8.10E-01	1.66E+00 3.83E+00
		Total PAHs	ERL	3.91E-01	3.85E+00 1.85E+00
	Fiddler Crab	None	NOAEL	3.91L-01	7.00L+00
	Sandpiper	None	NOAEL		
	Green Heron	None	NOAEL		
	Capitella Capitata	Dibenz(a,h)anthracene	ERM	7.65E-01	4.15E+00
	Fiddler Crab	None	LOAEL		
	Sandpiper	None	LOAEL		
	Green Heron	None	LOAEL		
Pond Sediment	Capitella Capitata	4,4-DDT*	ERL	4.16E+00	1.47E+00
	Fiddler Crab	None	NOAEL		
	Sandpiper	Nickel	NOAEL	8.98E-01	1.13E+00
	Green Heron	None	NOAEL		
	Capitella Capitata	None	ERM		
	Fiddler Crab	None	LOAEL		
	Sandpiper	None	LOAEL		
	Green Heron	None	LOAEL		

\* Average HQ is higher than RME HQ because the RME concentration was the maximum detected while the average concentration calculation contained 1/2 sample quantitation limits which sometimes were higher than the max. detect.

ERL - effects range low

ERM - effects range medium

HQ - hazard quotient

LOAEL - lowest observable adverse effects level NOAEL - no observable adverse effects level

RME - reasonable maximum exposure

TABLE 26 ECOLOGICAL HAZARD QUOTIENTS EXCEEDING ONE FOR THE BACKGROUND AREAS

MEDIA	RECEPTOR	CHEMICAL OF POTENTIAL ECOLOGICAL CONCERN	TOXICITY VALUE	AVERAGE HQ	RME HQ
Soil	Earthworm	Barium	NOAEL	1.01E+00	1.52E+00
00.11	Laranvonn	Zinc	NOAEL	2.06E+00	8.08E+00
	Deer Mouse	Antimony	NOAEL	9.76E-01	2.24E+00
	Door Modes	Barium	NOAEL	7.38E-01	1.11E+00
		Zinc	NOAEL	6.20E-01	2.43E+00
	Coyote	None	NOAEL	0.202 0 .	2.7.02.00
	Rat Snake	None	NOAEL		
	American Robin	Antimony	NOAEL	8.41E-01	1.93E+00
		Barium	NOAEL	6.98E-01	1.05E+00
		Zinc	NOAEL	9.00E-01	3.53E+00
	Red-Tailed Hawk	None	NOAEL		
	Earthworm	Barium	LOAEL	1.01E+00	1.52E+00
		Zinc	LOAEL	4.59E-01	1.80E+00
	Deer Mouse	None	LOAEL		
	Coyote	None	LOAEL		
	Rat Snake	None	LOAEL		
	American Robin	None	LOAEL		
	Red-Tailed Hawk	None	LOAEL		
Intracoastal Waterway	Capitella Capitata	None	NOAEL		
Sediment	Fiddler Crab	None	NOAEL		
	Black Drum	None	NOAEL		
	Spotted Seatrout	None	NOAEL		
	Sandpiper	None	NOAEL		
	Green Heron	None	NOAEL		

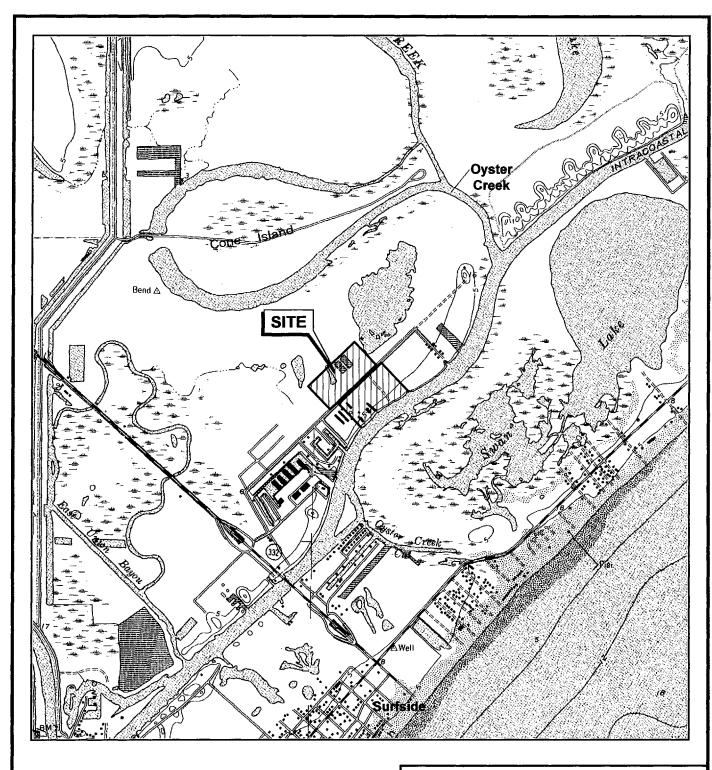
AET - apparent effects threshold HQ - hazard quotient

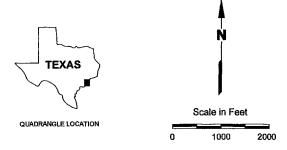
LOAEL - lowest observable adverse effects level NOAEL - no observable adverse effects level RME - reasonable maximum exposure

TABLE 27
SUMMARY OF SURFACE WATER DATA AND ECOLOGICAL BENCHMARKS

MEDIA	CHEMICAL OF POTENTIAL ECOLOGICAL CONCERN	MAX CONCENTRATION (mg/L)	ECO BENCHMARK (mg/L)	LC <sub>50</sub> (mg/L)*
Intracoastal Waterway Surface Water	Boron (dissolved)	4.99	1.2	86.5
Intracoastal Waterway Surface Water Background Area	Boron (dissolved) 4,4'-DDT Iron (dissolved) Silver (dissolved)	4.33 0.000013 0.06 0.0058	1.2 0.000001 0.05 0.00019	86.5 0.00045 4 1.45
Wetland Area Surface Water	Acrolein Boron (dissolved) Copper (dissolved) Manganese (dissolved)	0.00929 2.75 0.011 0.33	0.005 1.2 0.0036 0.1	0.43 86.5 0.368 50
Pond Surface Water	Boron (dissolved) Manganese (dissolved) Silver (dissolved)	3.33 1.06 0.0029	1.2 0.1 0.00019	86.5 50 1.45

<sup>\*</sup> Additional discussion related to the LC50 concentration provided here can be found in Section 3.4.8 of the SLERA report. All values from EPA, 2009.





Source:
Base map taken from http://www.tnris.state.tx.us Freeport, Texas 7.5 min.
U.S.G.S. quadrangle, 1974.

## GULFCO MARINE MAINTENANCE

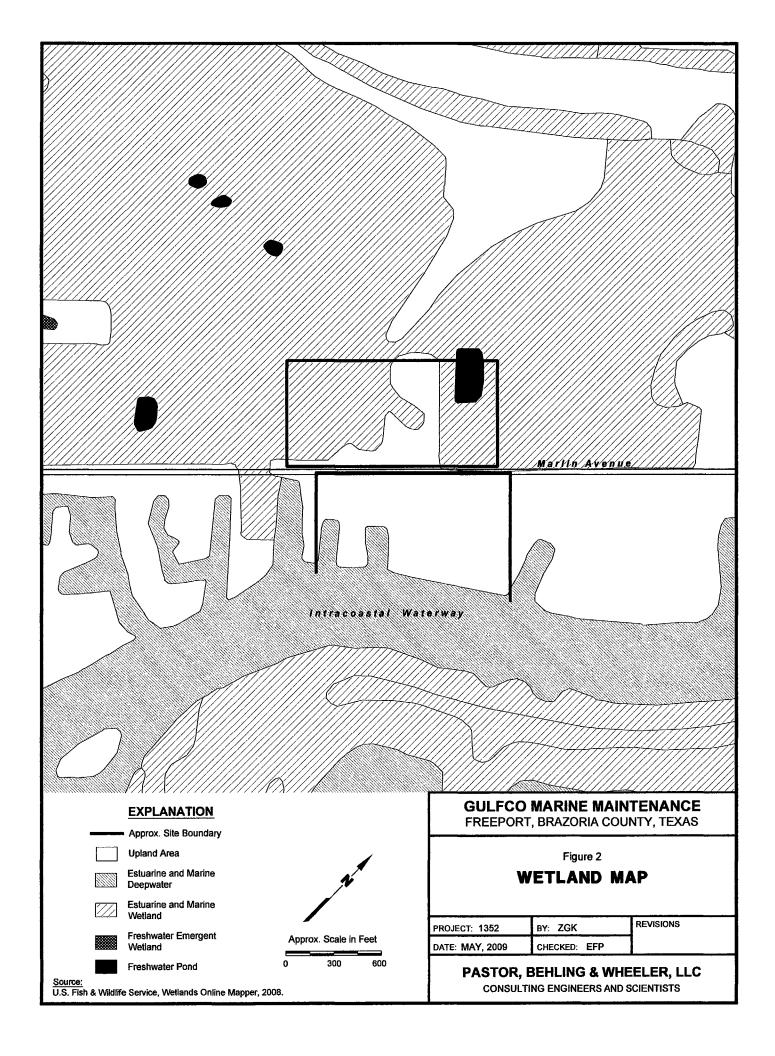
FREEPORT, BRAZORIA COUNTY, TEXAS

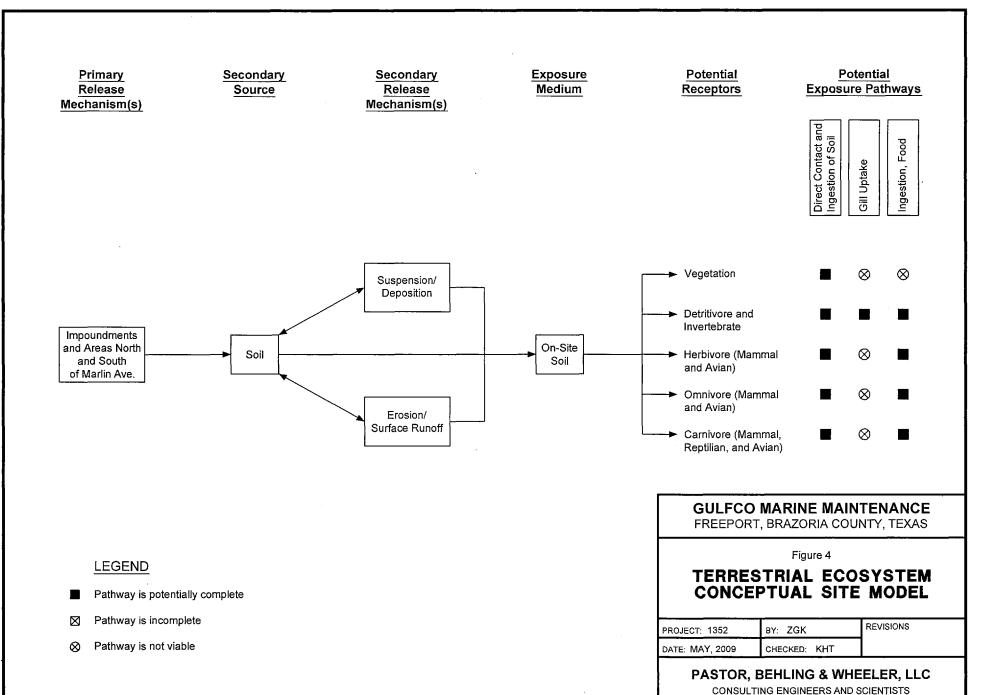
# Figure 1 SITE LOCATION MAP

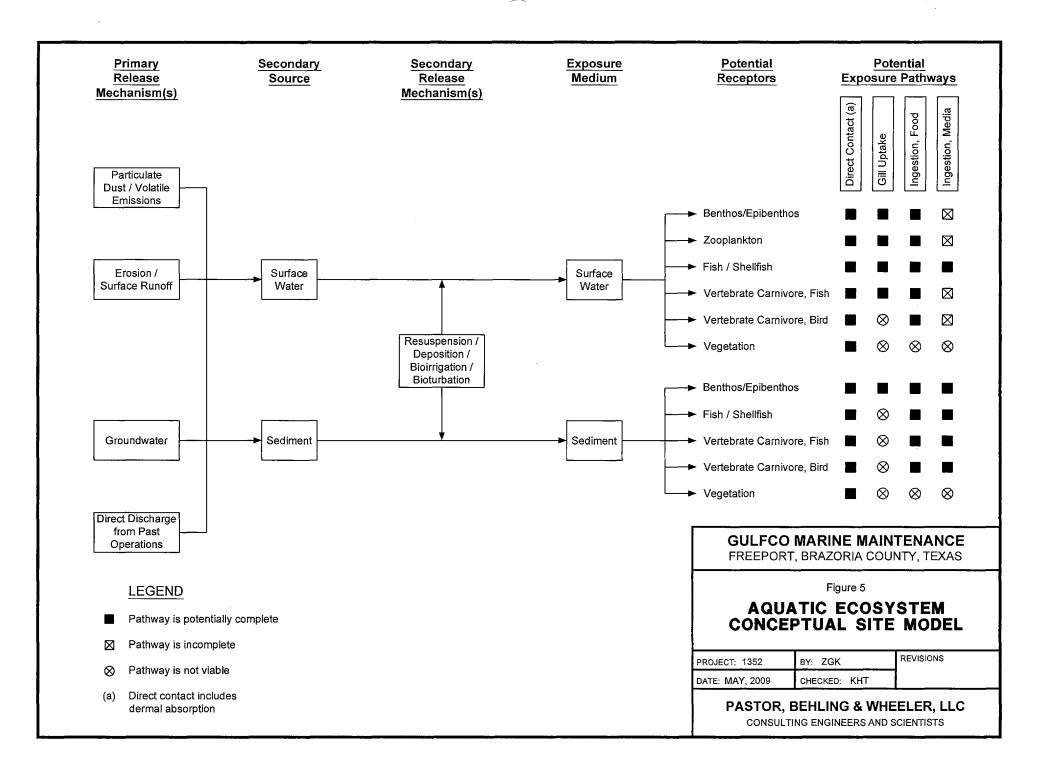
PROJECT: 1352	BY: ZGK	REVISIONS
DATE: MAY, 2009	CHECKED: EFP	

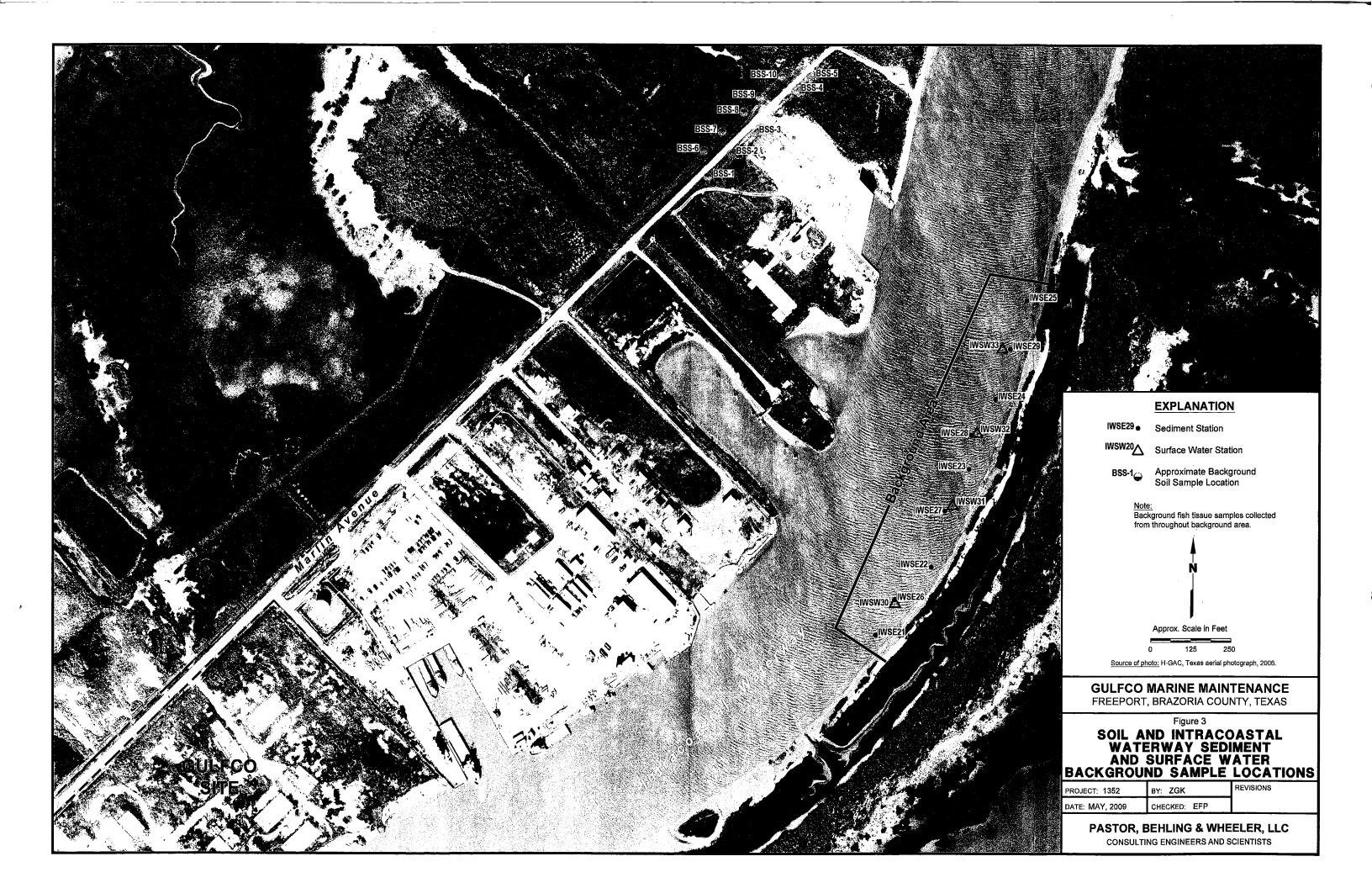
## PASTOR, BEHLING & WHEELER, LLC

CONSULTING ENGINEERS AND SCIENTISTS









APPENDIX A PRO UCL OUTPUT

## APPENDIX A-1

SOUTH OF MARLIN SURFACE SOIL

	General UCL Statistics	for Eul Deter	Pote	
User Selected Options		s for Full Data s	Seis	
From File		\data queries o	ct 07\EPC tables with onehalf DL\95% detect frequency \$	SURFAC
Full Precision	OFF	idata queries o	CLOVICIO LABICO WITH OHERIAN DEGOTA delect inequency C	
Confidence Coefficient	95%	nanca and the reference was an age of the reserved and the same of		
umber of Bootstrap Operations	2000			,
esult or 1/2 SDL (2-methylnapht	thalene)			
	rognam <sup>ter</sup> detedestiggdassjoriannskipperstygnapenmestodelse	General Sta	tistics	
N	umber of Valid Samples	83	Number of Unique Samples	53
Raw S	tatistics	77.78	Log-transformed Statistics	<b></b>
and the state of the league of the Hill Hill Have a state of the state	Minimum	0.0047	Minimum of Log Data	-5.354
<u>Marikankanikan (kirikankan) (kirikan kirikan kirikan kirikan kirikan kirikan kirikan kirikan kirikan kirikan k</u>	Maximum	0.501	Maximum of Log Data	-0.691
ом обятия в продости продусский продусский продусский продусский продусский продусский продусский продусский п В продусский продусский продусский продусский продусский продусский продусский продусский продусский продусски	Mean	0.0293	Mean of log Data	-4.479
anti Perrinci de la constitució de la la perente de de al como de la delada como momento de la decembra de la c	Median	0.0055	SD of log Data	1.14
anna (1988) (Santinganian in 1988) (Bartha (Bartha) (Bartha) (Bartha) (Bartha) (Bartha) (Bartha) (Bartha) (Bartha)	SD	0.0715		
	Coefficient of Variation	2.438		
	Skewness	5.333		
N. C.	F	Relevant UCL S	Statistics	d
Normal Dis	tribution Test		Lognormal Distribution Test	
and the second section of the second section of the second section of the second section of the second section	Lilliefors Test Statistic	0.365	Lilliefors Test Statistic	0.33
and the second states and the second states are second states and second second second second second second se	Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 8	5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Nor	mal Distribution		Assuming Lognormal Distribution	
And the second s	95% Student's-t UCL	0.0424	95% H-UCL	0.02
95% UCLs (Adju	sted for Skewness)		95% Chebyshev (MVUE) UCL	0.03
And the second district the second	95% Adjusted-CLT UCL	0.0472	97.5% Chebyshev (MVUE) UCL	0.04
	95% Modified-t UCL	0.0432	99% Chebyshev (MVUE) UCL	0.05
Gamma Dis	tribution Test		Data Distribution	and the red the still for a
alle princent and conference transmission and response to the second control and an executive control and appr	k star (bias corrected)	0.628	Data do not follow a Discernable Distribution (0.05	i)
	Theta Star	0.0467		
	nu star	104.3		
	Chi Square Value (.05)	81.71	Nonparametric Statistics	
-	ed Level of Significance	0.0471	95% CLT UCL	0.04
Adj	usted Chi Square Value	81.36	95% Jackknife UCL	0.04
	D	11.00	95% Standard Bootstrap UCL	0.04
	on-Darling Test Statistic	11.06	95% Bootstrap-t UCL	0.06 0.10
	Parling 5% Critical Value v-Smirnov Test Statistic	0.804	95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	0.10
	v-Smirnov Test Statistic	0.333	95% Percentile Bootstrap UCL	0.04
Data not Gamma Distribut			95% Chebyshev(Mean, Sd) UCL	0.04
Dam not dannia Distibut	od at on organicalice Le		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gan	nma Distribution		99% Chebyshev(Mean, Sd) UCL	0.10
-	proximate Gamma UCL	0.0374	33 /3 Silveryanov(moun, our doct	
5070 Ap				
95%	Adjusted Gamma UCL	0.0376		

			**************************************
ult or 1/2 SDL (4,4'-ddd)			
	General Stat	istics	
Number of Valid Samples	83	Number of Unique Samples	55
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	-9.04
Maximum	0.0243	Maximum of Log Data	-3.71
	7.8940E-4	Mean of log Data	-8.51
	1.3300E-4	SD of log Data	1.08
SD	0.0030		on on the state of
Coefficient of Variation	3.894		
Skewness	6.54		ntwikenenth on the best faith.
F	Relevant UCL S	tatistics	an agreement of the section of
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.435	Lilliefors Test Statistic	0.42
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0013	95% H-UCL	4.7561E
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	5.8317E
95% Adjusted-CLT UCL	0.0016	97.5% Chebyshev (MVUE) UCL	6.8130E
95% Modified-t UCL	0.0013	99% Chebyshev (MVUE) UCL	8.7406E
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.458	Data do not follow a Discernable Distribution (0.0)	5)
Theta Star	0.0017	<u> </u>	
nu star	76.06		
Approximate Chi Square Value (.05)	56.97	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.00
Adjusted Chi Square Value	56.68	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	22.2	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.827	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.467	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.104	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
95% Approximate Gamma UCL	0.0010		#*************************************
95% Adjusted Gamma UCL	0.0010		
Potential UCL to Use	de sec	Use 97.5% Chebyshev (Mean, Sd) UCL	0.00

	General S		
Number of Valid Samples	83	Number of Unique Samples	65
Raw Statistics		Log-transformed Statistics	1000-100-100 perget-santana - 100
Minimum	1.6300E-4	Minimum of Log Data	-8.722
Maximum	0.0693	Maximum of Log Data	-2.669
Mean	0.0019	Mean of log Data	-7.87
Median	1.8900E-4	SD of log Data	1.30
SD	0.0080		Pi
Coefficient of Variation	4.214		
Skewness	7.636		**************************************
	Relevant UC	1 Statistics	
Normal Distribution Test	Relevant OC	Lognormal Distribution Test	***************************************
Lilliefors Test Statistic	0.414	Lilliefors Test Statistic	0.358
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level	0.0070	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0033	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0041	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0034	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.402	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0047		entrangue contratación de la con
nu star	66.7		
Approximate Chi Square Value (.05)	48.9	Nonparametric Statistics	****************
Adjusted Level of Significance	0.0471	95% CLT UCL	0.003
Adjusted Chi Square Value	48.63	95% Jackknife UCL	0.003
		95% Standard Bootstrap UCL	0.003
Anderson-Darling Test Statistic	15.79	95% Bootstrap-t UCL	0.008
Anderson-Darling 5% Critical Value	0.84	95% Hall's Bootstrap UCL	0.008
Kolmogorov-Smirnov Test Statistic	0.364	95% Percentile Bootstrap UCL	0.003
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.004
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.005
		97.5% Chebyshev(Mean, Sd) UCL	0.007
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.010
95% Approximate Gamma UCL	0.0026		
95% Adjusted Gamma UCL	0.0026		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.007
esult or 1/2 SDL (4,4'-ddt)			
tin til	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	67
Raw Statistics	200	Log-transformed Statistics	
	6.2500E-5	Minimum of Log Data	

			4.488
Maximum	0.0625	Maximum of Log Data	-2.773
Mean	0.0028		-7.704
	3.1700E-4	SD of log Data	2.095
SD	0.0092		2.030
Coefficient of Variation	2.422		
			***************************************
Skewness	4.079		, I.o., (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.342	Lilliefors Test Statistic	0.255
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0,0055		0.009
95% UCLs (Adjusted for Skewness)	0.3000	95% Chebyshev (MVUE) UCL	0.009
95% Adjusted -CLT UCL	0.006	97.5% Chebyshev (MVUE) UCL	0.003
95% Modified-t UCL	0.006		0.012
33 / Modified LOCE	0.0030	33 /3 CHEDYSHEV (WIVOL) CCL	0.017
Gamma Distribution Test		Data Distribution	·
k star (bias corrected)	0.315	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0122		
nu star	52.37		
Approximate Chi Square Value (.05)	36.75	Nonparametric Statistics	•
Adjusted Level of Significance	0.0471	95% CLT UCL	0.005
Adjusted Chi Square Value	36.52	95% Jackknife UCL	0.005
		95% Standard Bootstrap UCL	0.005
Anderson-Darling Test Statistic	7.358	95% Bootstrap-t UCL	0.006
Anderson-Darling 5% Critical Value	0.861	95% Hall's Bootstrap UCL	0.006
Kolmogorov-Smirnov Test Statistic	0,235	95% Percentile Bootstrap UCL	0.005
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.006
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.008
V		97.5% Chebyshev(Mean, Sd) UCL	0.010
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.014
95% Approximate Gamma UCL	0.0054		0.017
95% Approximate Gamma UCL	0.0054		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.014
esult or 1/2 SDL (acenaphthene)			
Number of Valid Samples	General 83	Statistics Number of Unique Samples	67
			- •
Raw Statistics		Log-transformed Statistics	
Minimum	0.0043		-5.438
Maximum	1.69	Maximum of Log Data	0.525
Mean	0.0595	Mean of log Data	-4.288
Median	0.0051	SD of log Data	1.443
SD	0.2		· · · · · · · · · · · · · · · · · · ·
Coefficient of Variation	3.372		

Skewness	7.061		
			***************************************
	Relevant UCL S		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.392	Lilliefors Test Statistic	0.32
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0961	95% H-UCL	0.05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.114	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0989	99% Chebyshev (MVUE) UCL	0.1
Gamma Distribution Test		Data Distribution	
	0.434	Data do not follow a Discernable Distribution (0.0)	<u> </u>
k star (bias corrected) Theta Star	0.434	Data do not lollow a Discentable Distribution (0.0	-)
nu star	72.06		
Approximate Chi Square Value (.05)	53.51	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0
Adjusted Chi Square Value	53.23	95% Jackknife UCL	0.0
Adjusted Off Oquale Value	00.20	95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	10.45	95% Bootstrap-t UCL	0.1
Anderson-Darling 5% Critical Value	0.832	95% Hall's Bootstrap UCL	0.2
Kolmogorov-Smirnov Test Statistic	0.313	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.1
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.1
Date not dannia Distributed at 3% diginicance Le		97.5% Chebyshev(Mean, Sd) UCL	0.19
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.2
95% Approximate Gamma UCL	0.0801	30% Griddyshov (Modri, Gdy Gold	·····
95% Adjusted Gamma UCL	0.0805		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.1
lt or 1/2 SDL (acenaphthylene)			
	General Stati	stics	
Number of Valid Samples	83	Number of Unique Samples	46
Raw Statistics		Log-transformed Statistics	
Minimum)	0.0049	Minimum of Log Data	-5.31
Maximum	0.935	Maximum of Log Data	-0.067
Mean	0.0382	Mean of log Data	-4.44
Median	0.0057	SD of log Data	1.26
SD	0.11		
Coefficient of Variation	2.876		and the second s
Skewness	6.947		
R	Relevant UCL S	atistics	
Normal Distribution Test		Lognormal Distribution Test	
	0.381	Lilliefors Test Statistic	0.3

Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0582		0.037
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.045
95% Adjusted-CLT UCL			0.054
95% Modified-t UCL	0.0598	99% Chebyshev (MVUE) UCL	0.07
Gamma Distribution Test		Data Distribution	14 1 1 1 4 m (
k star (bias corrected)	0.522	Data do not follow a Discernable Distribution (0.05	5)
Theta Star			1(,,
nu star	86.68		·*************************************
Approximate Chi Square Value (.05)		Nonparametric Statistics	
Adjusted Level of Significance			0.058
Adjusted Chi Square Value	}	95% Jackknife UCL	0.058
Adjusted Oil Square Value	00.91	95% Standard Bootstrap UCL	0.058
Andrews Deviler Test Oblini	10.00	1	0.03
Anderson-Darling Test Statistic	J	95% Bootstrap-t UCL	**********
Anderson-Darling 5% Critical Value	į	95% Hall's Bootstrap UCL	0.13
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL	0.06
Kolmogorov-Smirnov 5% Critical Value	<u> </u>	95% BCA Bootstrap UCL	0.074
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.09
		97.5% Chebyshev(Mean, Sd) UCL	0.11
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.158
95% Approximate Gamma UCL	0.05		
95% Adjusted Gamma UCL	0.0502		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.113
	,		The state of the s
esult or 1/2 SDL (aluminum)			
	General	Statistics	11.22.11.2.11.2.2.2.2.2.2.2.2.2.2.2.2.2
Number of Valid Samples	83	Number of Unique Samples	79
Raw Statistics	ph gabit start transcripe as a construction.	Log-transformed Statistics	a a final delegation for the Primer P
Minimum	414	Minimum of Log Data	6.026
Maximum		Maximum of Log Data	9.629
Mean	5335	Mean of log Data	8.34
Median	4650	SD of log Data	0.75
	<u></u>	SD 01 log Data	0.75
SD	<u></u>		
Coefficient of Variation	0.627		***************************************
Skewness	0.744		***************************************
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	d-Managery-2011 11
Lilliefors Test Statistic	0.0927	Lilliefors Test Statistic	0.088
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution	The Marian Marian Control of the Con	Assuming Lognormal Distribution	
95% Student's-t UCL	5946		6635
55 % Student S-I UCL	JJ40	33 /0 FT-UCL	

- Martine - 野田 書 コード、切り切り - アンド・アンド・アンド・オール 100 mm - アンド・アンド・アンド・アンド・アンド・アンド・アンド・アンド・アンド・アンド・	化制造压制 计				■ 1.1 (4) (4) (4) (5) (4)		4.73/4.
95% UCLs (Adjusted for Skewness)				95% (	Chebyshev (	MVUE) LICI	7839
95% Adjusted-CLT UCL	5971	erater en anna en	h. quagaa ayaa hagaa ayaa ayaa ayaa ayaa ayaa			MVUE) UCL	8817
95% Modified-t UCL						MVUE) UCL	10737
3370 Modified-1 GOL	1 0001		pata 1146-1-1-1-1-1-1-1-1-1		Jiebysilev (	WVOL) OOL	10/3/
Gamma Distribution Test		· H· · · · · · · · · · · · · · · · · ·	***************************************	Data D	istribution	ente activitation of the second se	
k star (bias corrected)	2.187		Data appe	ar Normal a	at 5% Signifi	cance Level	
Theta Star	2439						
nu star	363.1				***************************************	eggan i i i i i i i i i i i i i i i i i i i	
Approximate Chi Square Value (.05)	320		######################################	Nonparame	etric Statistic	S	
Adjusted Level of Significance	0.0471				95	% CLT UCL	5939
Adjusted Chi Square Value	319.2	**************************************			95% Ja	ckknife UCL	5946
			***************************************	95%	Standard Bo	otstrap UCL	5930
Anderson-Darling Test Statistic	0.468					tstrap-t UCL	5983
Anderson-Darling 5% Critical Value	0.762			9		otstrap UCL	5976
Kolmogorov-Smirnov Test Statistic	0.074		er servi saerigran kirja (u.e.a. 1004)		ercentile Bo	'	5953
Kolmogorov-Smirnov 5% Critical Value	0.0992	minimining management and an area	······································			,	5953
Data appear Gamma Distributed at 5% Significance	1				6936		
Date appear Guinnia Distributed at 3% Significance	LCAC!				ebysnev(Me		7628
Assuming Gamma Distribution			· · · · · · · · · · · · · · · · · · ·		- ,		7628 8989
	COEE		it-tiri-bahalan perimanan	99% UN	ebyshev(Me	an, ou) UCL	೦೪೮೪
95% Approximate Gamma UCL	6055		areachine articular a				
95% Adjusted Gamma UCL	6068						
Potential UCL to Use				AMINONESSAMINA		dent's-t UCL	5946
Number of Valid Samples	General S	Statistics		Nui	mber of Unio	ue Samples	63
		o in contract the state of state of boulgar		ter englessere ter regisere i mentelike bryen		1	
Raw Statistics			L	og-transfor	med Statisti	CS	
Minimum	0.0049					of Log Data	<i>-</i> 5.31
Maximum	2.46				Maximum	of Log Data	0.9
Mean	0.0961				Mear	of log Data	
Median	0.0112		A		~		-3.85
SD	0.293				SL	of log Data	#F1711111411WWW.148#14#M447114
^#:	0.233					of log Data	#F1711111411WWW.148#14#M447114
Coefficient of Variation	3.053	reading the representative or the period of	***************************************		SL.	of log Data	
Skewness					SL	of log Data	dritti (1140)
Skewness	3.053 6.861	N. Statistics			SL	of log Data	dritti (1140)
Skewness	3.053	CL Statistics		ognormal N			#F1711111411WWW.148#14#M447114
Skewness  Normal Distribution Test	3.053 6.861 Relevant UC	CL Statistics	Lo	ognormal D	istribution T	est	1.5
Skewness  Normal Distribution Test  Lilliefors Test Statistic	3.053 6.861 Relevant UC	CL Statistics	Lc	ognormal D	istribution T	est est Statistic	0.2
Skewness  Normal Distribution Test	3.053 6.861 Relevant UC				istribution T	est est Statistic ritical Value	0.2
Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value	3.053 6.861 Relevant UC				istribution T Lilliefors T Lilliefors C	est est Statistic ritical Value	0.2
Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value	3.053 6.861 Relevant UC		Data not Lo	ognormal a	istribution T Lilliefors T Lilliefors C	est est Statistic ritical Value cance Level	0.2
Normal Distribution Test  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level	3.053 6.861 Relevant UC		Data not Lo	ognormal a	istribution To Lilliefors To Lilliefors Co t 5% Signific ormal Distrib	est est Statistic ritical Value cance Level	0.2
Normal Distribution Test  Lilliefors Test Statistic Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	3.053 6.861 Relevant UC 0.378 0.0973		Data not Lo	ognormal a	istribution To Lilliefors To Lilliefors Co t 5% Signific ormal Distrib	est est Statistic ritical Value cance Level oution	0.2 0.0 0.1
Normal Distribution Test  Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL	3.053 6.861 Relevant UC 0.378 0.0973		Data not Lo	ognormal a ming Logn 95% C	istribution T Lilliefors T Lilliefors C t 5% Signific ormal Distrit	est est Statistic ritical Value cance Level oution 95% H-UCL	0.2 0.0 0.1:
Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	3.053 6.861 Relevant UC 0.378 0.0973		Data not Lo	ognormal a ming Logn 95% ( 97.5% (	istribution T Lilliefors T Lilliefors C t 5% Signific ormal Distrib	est est Statistic ritical Value cance Level oution 95% H-UCL MVUE) UCL	0.24 0.09 0.11 0.11 0.12
Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	3.053 6.861 Relevant UC 0.378 0.0973		Data not Lo	ognormal a ming Logn 95% C 97.5% C	istribution To Lilliefors To Lilliefors Co t 5% Signific ormal Distrib Ormal Distrib Chebyshev (I	est est Statistic ritical Value cance Level oution 95% H-UCL MVUE) UCL	0.2 0.0 0.1 0.1

	[4]. A	 	
k star (bias corrected)	0.422	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	<u></u>	<b>,</b>	
nu star	70.13		
Approximate Chi Square Value (.05)	51.85	Nonparametric Statistics	
Adjusted Level of Significance	0.0471		0.149
Adjusted Chi Square Value	51.57	95% Jackknife UCL	0.15
		95% Standard Bootstrap UCL	0.15
Anderson-Darling Test Statistic	7.484	95% Bootstrap-t UCL	0.244
Anderson-Darling 5% Critical Value	0.835	95% Hall's Bootstrap UCL	0.369
Kolmogorov-Smirnov Test Statistic	0.229	95% Percentile Bootstrap UCL	0.155
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.19
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.236
	***************************************	97.5% Chebyshev(Mean, Sd) UCL	0.297
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.416
95% Approximate Gamma UCL	0.13		
95% Adjusted Gamma UCL	0.131		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.297
esult or 1/2 SDL (antimony)			
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	49
	_		
Raw Statistics		Log-transformed Statistics	
Minimum	0.095	Minimum of Log Data	-2.354
Maximum	5.14	Maximum of Log Data	1.637
Mean	1.118	Mean of log Data	-0.619
Median	0.23	SD of log Data	1.266
SD	1.228		·
Coefficient of Variation	1.099		ttter-fr-8ttstischMan-activ
Skewness	1.098		**************************************
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.307	Lilliefors Test Statistic	0.281
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	and the state of t	Assuming Lognormal Distribution	
95% Student's-t UCL	1.342	95% H-UCL	1.703
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2.102
95% Adjusted-CLT UCL	1.357	97.5% Chebyshev (MVUE) UCL	2.5
95% Modified-t UCL	1.345	99% Chebyshev (MVUE) UCL	3.283
Commo Distribution Total		Date Distribution	
Gamma Distribution Test	0.70	Data Distribution	`
k star (bias corrected)	0.79	Data do not follow a Discernable Distribution (0.05	<i>'</i>
Theta Star	1.414		
nu star	131.2	N	
Approximate Chi Square Value (.05)	105.7	Nonparametric Statistics	4 000
Adjusted Level of Significance	0.0471	95% CLT UCL	1.339

A Company of the control of the cont		Substitution of Transportation of the second	
		0.00	1.040
Adjusted Chi Square Value	105.3	95% Jackknife UCL	1.342
Anderson-Darling Test Statistic	6.492	95% Standard Bootstrap UCL	1.334
Anderson-Darling 1est Statistic  Anderson-Darling 5% Critical Value	0.791	95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	1.357
Kolmogorov-Smirnov Test Statistic	0.791	95% Percentile Bootstrap UCL	1.349
Kolmogorov-Smirnov 1est Statistic  Kolmogorov-Smirnov 5% Critical Value	0.302	95% BCA Bootstrap UCL	1.348
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	1.705
Data not danima distributed at 5% Significance Li	avei	97.5% Chebyshev(Mean, Sd) UCL	1.700
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.459
95% Approximate Gamma UCL	1.387	33% Onedyshev(Wear, Od) 30CL	2.700
95% Adjusted Gamma UCL	1.392	-	······································
	1.002		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	1.959
Result or 1/2 SDL (aroclor-1254)  Number of Valid Samples	General S	tatistics  Number of Unique Samples	63
Raw Statistics	0.0010	Log-transformed Statistics	-6.422
Minimum	0.0016	Minimum of Log Data	
Maximum	7.98	Maximum of Log Data	2.077
Mean	0.137	Mean of log Data	-5.526
Median	0.0018	SD of log Data	1.783
SD Coefficient of Variation	0.875		
Skewness	6.368 8.719		
	Relevant UC	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.446	Lilliefors Test Statistic	0.425
Lilliefors Critical Value	0.0955	Lilliefors Critical Value	0.095
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.294	95% H-UCL	0.035
95% UCLs (Adjusted for Skewness)	1	95% Chebyshev (MVUE) UCL	0.041
95% Adjusted-CLT UCL	0.387	97.5% Chebyshev (MVUE) UCL	0.051
95% Modified-t UCL	0.309	99% Chebyshev (MVUE) UCL	0.071
Gamma Distribution Test		Data Distribution	pr
k star (bias corrected)	0.207	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.663		-
nu star	35.66		
Approximate Chi Square Value (.05)	22.99	Nonparametric Statistics	**************************************
Adjusted Level of Significance	0.0472	95% CLT UCL	0.293
Adjusted Chi Square Value	22.82	95% Jackknife UCL	0.294
		95% Standard Bootstrap UCL	0.294
Anderson-Darling Test Statistic	23.56	95% Bootstrap-t UCL	1.17
Anderson-Darling 5% Critical Value	0.908	95% Hall's Bootstrap UCL	0.859
Kolmogorov-Smirnov Test Statistic	0.451	95% Percentile Bootstrap UCL	0.323

To the constant of the second of the constant	 	The street of the state of the	ight Weller
Kolmogorov-Smirnov 5% Critical Value	0.107	95% BCA Bootstrap UCL	0.45
· · · · · · · · · · · · · · · · · · ·	l		0.45
Data not Gamma Distributed at 5% Significance L	evei	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.548
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	1.076
-	0.213	99% Chebysnev(Mean, Sd) OCL	1.070
95% Approximate Gamma UCL	<u>[</u>		
95% Adjusted Gamma UCL	0.215		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.726
tesult or 1/2 SDL (arsenic)			
	General S		
Number of Valid Samples	83	Number of Unique Samples	78
Raw Statistics		Log-transformed Statistics	
Minimum	0.085	Minimum of Log Data	-2.465
Maximum	24.3	Maximum of Log Data	3.19
Mean	3.735	Mean of log Data	0.735
Median	2.49	SD of log Data	1.257
SD	4.012		
Coefficient of Variation	1.074		
Skewness	2.522		
	I.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ð	
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.186	Lilliefors Test Statistic	0.128
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	and describe the orbit of the
95% Student's-t UCL	4.467	95% H-UCL	6.497
95% UCLs (Adjusted for Skewness)	I	95% Chebyshev (MVUE) UCL	8.02
95% Adjusted-CLT UCL	4.589	97.5% Chebyshev (MVUE) UCL	9.533
95% Modified-t UCL	4.488	99% Chebyshev (MVUE) UCL	12.5
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	0.964	Data appear Gamma Distributed at 5% Significance I	_evel
Theta Star	3.873		
nu star	160.1		
Approximate Chi Square Value (.05)	131.8	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	4.459
Adjusted Chi Square Value	131.4	95% Jackknife UCL	4.467
		95% Standard Bootstrap UCL	4.439
Anderson-Darling Test Statistic	0.324	95% Bootstrap-t UCL	4.598
Anderson-Darling 5% Critical Value	0.783	95% Hall's Bootstrap UCL	4.764
Kolmogorov-Smirnov Test Statistic	0.061	95% Percentile Bootstrap UCL	4.487
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	4.53
Data appear Gamma Distributed at 5% Significance	<u> </u>	95% Chebyshev(Mean, Sd) UCL	5.654
Take appear defining Distributed at 0.0 Organicalities		97.5% Chebyshev(Mean, Sd) UCL	6.485
Assuming Gamma Distribution	L., .	99% Chebyshev(Mean, Sd) UCL	8.116
95% Approximate Gamma UCL	4.535	3378 Chosyshev(Mean, Gd) OCL	0.110
30 % Approximate damina OCL	4.000		

95% Adjusted Gamma UCL	4.551	and the set Land and the Land Bell and send a Justice 1970 to	
Potential UCL to Use		Use 95% Approximate Gamma UCL	4.53
· Otenital OCE to OSE		OSC 3570 Approximate damina GOL	4.00
sult or 1/2 SDL (barium)			
salt of 172 ODE (Carlain)	Prince of a calculate confinence for a confidence of the section o		
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	79
Raw Statistics		Log-transformed Statistics	
Minimum	18.6	Minimum of Log Data	2.92
Maximum	2180	Maximum of Log Data	7.68
Mean	345.2	Mean of log Data	5.48
Median	206	SD of log Data	0.84
SD	349	OD OF 109 Data	0.0-
Coefficient of Variation	1.011		
Skewness	2.74		·
Jrewiless	2.74		##- \$94 #\$ }# ### QF #QF #QF ### 1
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.199	Lilliefors Test Statistic	0.09
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	······································
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	408.9	95% H-UCL	415.1
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	496.4
95% Adjusted-CLT UCL	420.5	97.5% Chebyshev (MVUE) UCL	564
95% Modified-t UCL	410.9	99% Chebyshev (MVUE) UCL	696.9
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.478	Data appear Lognormal at 5% Significance Leve	
Theta Star	233.6		
nu star	245.3		
Approximate Chi Square Value (.05)	210	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	408.2
Adjusted Chi Square Value	209.5	95% Jackknife UCL	408.9
		95% Standard Bootstrap UCL	409.3
Anderson-Darling Test Statistic	2.05	95% Bootstrap-t UCL	434.7
Anderson-Darling 5% Critical Value	0.77	95% Hall's Bootstrap UCL	439
Kolmogorov-Smirnov Test Statistic	0.146	95% Percentile Bootstrap UCL	412.1
Kolmogorov-Smirnov 5% Critical Value	0.0998	95% BCA Bootstrap UCL	421.9
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	512.2
		97.5% Chebyshev(Mean, Sd) UCL	584.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	726.4
95% Approximate Gamma UCL	403.2		11 th - 11 mi also 14 (1 ma 4 a s
95% Adjusted Gamma UCL	404.3		
Potential UCL to Use		Use 95% H-UCL	415.1
LOIGHIIGH OOF 10 026		036 33 W 13-00L	710.1

Number of Valid Samples  Raw Statistics  Minimum  Maximum	83	Number of Unique Samples	
Minimum Maximum			70
Minimum Maximum		Log-transformed Statistics	a Milatolpus a sala Fassados Isada.
Maximum	0.0044		-5.415
	5.02	Maximum of Log Data	-5.415 1.61
Mean	0.345		-3.502
Median	0.005		2.25
SD	0.793		۷.2.
Coefficient of Variation	2.297		
Skewness	3.493		r municipani di di
Normal Distribution Test	Relevant U	ICL Statistics  Lognormal Distribution Test	van van de
Lilliefors Test Statistic	0.364	Lilliefors Test Statistic	0.28
Lilliefors Critical Value	0.0973		0.09
Data not Normal at 5% Significance Level	0.007	Data not Lognormal at 5% Significance Level	0.00
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.49	95% H-UCL	0.94
95% UCLs (Adjusted for Skewness)	g shifther at a character at a proper at a supposed at a	95% Chebyshev (MVUE) UCL	0.94
95% Adjusted-CLT UCL	0.524	97.5% Chebyshev (MVUE) UCL	1.20
95% Modified-t UCL	0.495	99% Chebyshev (MVUE) UCL	1.71
Gamma Distribution Test	to to ear annual to the annual to the	Data Distribution	
k star (bias corrected)	0.283	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	1.22		
nu star	46.96		Zalla zarrika eta errika baria bari
Approximate Chi Square Value (.05)	32.23	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0471	95% CLT UCL	0,48
Adjusted Chi Square Value	32.02	95% Jackknife UCL	0.49
		95% Standard Bootstrap UCL	0.48
Anderson-Darling Test Statistic	9.314	95% Bootstrap-t UCL	0.54
Anderson-Darling 5% Critical Value	0.872	95% Hall's Bootstrap UCL	0.56
Kolmogorov-Smirnov Test Statistic	0.281	95% Percentile Bootstrap UCL	0.50
Kolmogorov-Smirnov 5% Critical Value	0.107	95% BCA Bootstrap UCL	0.53
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.72
	*************************************	97.5% Chebyshev(Mean, Sd) UCL	0.88
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.21
95% Approximate Gamma UCL	0.503		
95% Adjusted Gamma UCL	0.506		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.21
it or 1/2 SDL (benzo(a)pyrene)			

jain dir pilili Girjanda, Any gama kangi uliyin di	Log-transformed Statistics		Raw Statistics
-5.419	Minimum of Log Data	0.0044	: Minimum
1.52	Maximum of Log Data	4.57	Maximum
-2.692	Mean of log Data	0.452	Mean
2.07	SD of log Data	0.0514	Median
		0.92	SD
		2.036	Coefficient of Variation
		2.73	Skewness
and the state of t	tatistics	elevant UCL	F
	Lognormal Distribution Test		Normal Distribution Test
0.10	Lilliefors Test Statistic	0.329	Lilliefors Test Statistic
0.09	Lilliefors Critical Value	0.0973	Lilliefors Critical Value
	Data not Lognormal at 5% Significance Level		Data not Normal at 5% Significance Level
	Assuming Lognormal Distribution		Assuming Normal Distribution
1.26	95% H-UCL	0.62	95% Student's-t UCL
1.37	95% Chebyshev (MVUE) UCL		95% UCLs (Adjusted for Skewness)
1.73	97.5% Chebyshev (MVUE) UCL	0.651	95% Adjusted-CLT UCL
2.44	99% Chebyshev (MVUE) UCL	0.625	95% Modified-t UCL
manufuncia estado estado estado	Data Distribution		Gamma Distribution Test
5)	Data do not follow a Discernable Distribution (0.05	0.349	k star (bias corrected)
		1.296	Theta Starl
······································		57.92	nu star
- Carried and Carr	Nonparametric Statistics	41.43	Approximate Chi Square Value (.05)
0.61	95% CLT UCL	0.0471	Adjusted Level of Significance
0.62	95% Jackknife UCL	41.18	Adjusted Chi Square Value
0.62	95% Standard Bootstrap UCL		
0.69	95% Bootstrap-t UCL	4.332	Anderson-Darling Test Statistic
0.64	95% Hall's Bootstrap UCL	0.853	Anderson-Darling 5% Critical Value
0.62	95% Percentile Bootstrap UCL	0.213	Kolmogorov-Smirnov Test Statistic
	·		Kolmogorov-Smirnov 5% Critical Value
	•		Data not Gamma Distributed at 5% Significance Le
			Assuming Gamma Distribution
		0.632	95% Approximate Gamma UCL
		0.636	95% Adjusted Gamma UCL
1.45	Use 99% Chebyshev (Mean, Sd) UCL		Potential UCL to Use
0.65 0.89 1.08 1.45	95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.106 /rel   0.632	al Value
			or 1/2 SDL (benzo(b)fluoranthene)
	stics	General Sta	the tight of the state of the s
79	Number of Unique Samples	83	Number of Valid Samples
	Log-transformed Statistics		Raw Statistics
-5.688	Minimum of Log Data	0.0033	· Minimum
1.69	Maximum of Log Data	5.42	Maximum
-2.042	Mean of log Data	0.582	Mean
-2.042		1	

SD	1.074		
Coefficient of Variation	1.846		····
Skewness	2.709		
			ha Websterl + 110+110+110+110+110+110+110+110+110+1
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.314	Lilliefors Test Statistic	0.07
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
	-		
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.778	95% H-UCL	1.63
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.85
95% Adjusted-CLT UCL	0.813	97.5% Chebyshev (MVUE) UCL	2.32
95% Modified-t UCL	0.784	99% Chebyshev (MVUE) UCL	3.24
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0,425	Data appear Lognormal at 5% Significance Level	
Theta Star	1.369		
nu star	70.59		
Approximate Chi Square Value (.05)	52.25	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.77
Adjusted Chi Square Value	51.97	95% Jackknife UCL	0.77
		95% Standard Bootstrap UCL	0.77
Anderson-Darling Test Statistic	2.74	95% Bootstrap-t UCL	0.83
Anderson-Darling 5% Critical Value	0.835	95% Hall's Bootstrap UCL	0.82
Kolmogorov-Smirnov Test Statistic	0.166	95% Percentile Bootstrap UCL	0.79
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.82
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	1.09
		97.5% Chebyshev(Mean, Sd) UCL	1.31
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.75
95% Approximate Gamma UCL	0.786		
95% Adjusted Gamma UCL	0.79		***************************************
Potential UCL to Use		Use 95% H-UCL	1.63
esult or 1/2 SDL (benzo(g,h,i)perylene)			
	General S	Statistics	
. Number of Valid Samples	83	Number of Unique Samples	73
Raw Statistics		Log-transformed Statistics	ne venekanakir-eta kultur
Minimum	0.0044	Minimum of Log Data	-5.418
Maximum	4.24	Maximum of Log Data	1.44
· Mean	0.324	Mean of log Data	-2.987
Median	0.0493	SD of log Data	2.03
SD	0.706		
Coefficient of Variation	2.182		
Skewness	3.466		
Chemical	3.700		
	elevent IIC	EL Statistics	

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.326	Lilliefors Test Statistic	0.179
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	·	Assuming Lognormal Distribution	
95% Student's-t UCL	0.452	95% H-UCL	0.854
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.934
95% Adjusted-CLT UCL	0.483	97.5% Chebyshev (MVUE) UCL	1.178
95% Modified-t UCL	0.457	99% Chebyshev (MVUE) UCL	1.657
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.355	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.911		-
nu star	58.96	почина в выправить увети привету опредержану в провется почина почина в провется в провется в провется в провется в принце почина в провется в провется в принце почина в провется в провется в принце почина в провется в принце почина в принце почина в провется в принце почина в почина в принце почина в принце почина в принце почина в поч	
Approximate Chi Square Value (.05)	42.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.45
Adjusted Chi Square Value	42.05	95% Jackknife UCL	0.452
		95% Standard Bootstrap UCL	0.449
Anderson-Darling Test Statistic	4.478	95% Bootstrap-t UCL	0.498
Anderson-Darling 5% Critical Value	0.852	95% Hall's Bootstrap UCL	0.504
Kolmogorov-Smirnov Test Statistic	0.172	95% Percentile Bootstrap UCL	0.453
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.499
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.661
		97.5% Chebyshev(Mean, Sd) UCL	0.807
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.095
95% Approximate Gamma UCL	0.451		irrinuzione mango, erro
95% Adjusted Gamma UCL	0.454		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.095
sult or 1/2 SDL (benzo(k)fluoranthene)			
	General St		· priori
Number of Valid Samples	83	Number of Unique Samples	59
Raw Statistics	**************************************	Log-transformed Statistics	
Minimum	0.0068	Minimum of Log Data	-4.984
Maximum	4.25	Maximum of Log Data	1.447
Mean	0.24	Mean of log Data	-3.413
Median	0.0081	SD of log Data	1.887
SD	0.601		
Coefficient of Variation Skewness	2.507 4.388		er Draudersensen sakken selver selver selver
Normal Distribution Test	Relevant UCL	. Statistics  Lognormal Distribution Test	
Lilliefors Test Statistic	0.349	Lilliefors Test Statistic	0.3
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level	0.0370	Data not Lognormal at 5% Significance Level	0.037

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.349	95% H-UCL	0.38
95% UCLs (Adjusted for Skewness)	0.010	95% Chebyshev (MVUE) UCL	0.43
95% Adjusted-CLT UCL	0.382	97.5% Chebyshev (MVUE) UCL	0.54
95% Modified-t UCL	0.355	99% Chebyshev (MVUE) UCL	0.7
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.336	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.713		····
nu star	55.81		
Approximate Chi Square Value (.05)	39.64	Nonparametric Statistics	<b>76</b> -76-(01)62016
Adjusted Level of Significance	0.0471	95% CLT UCL	0.3
Adjusted Chi Square Value	39.4	95% Jackknife UCL	0.3
respected of the equation of t		95% Standard Bootstrap UCL	0.3
Anderson-Darling Test Statistic	9.793	95% Bootstrap-t UCL	0.4
Anderson-Darling 5% Critical Value	0.856	95% Hall's Bootstrap UCL	0.4
Kolmogorov-Smirnov Test Statistic	0.285	95% Percentile Bootstrap UCL	0.3
Kolmogorov-Smirnov 763t Statistic	0.106	95% BCA Bootstrap UCL	0.3
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.5
Data not danima Distributed at 3% digninicance Le	2 A C I	97.5% Chebyshev(Mean, Sd) UCL	0.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.8
95% Approximate Gamma UCL	0.337	33 % Chebyshev (Mean, 3d) OCL	0.0
95% Adjusted Gamma UCL	0.339		
95% Adjusted Gamma OCL	0.339		,, *** .#********* \ 1 *******
		1	
Potential UCL to Use  ult or 1/2 SDL (beryllium)		Use 97.5% Chebyshev (Mean, Sd) UCL	0.6
	General Stat		0.6
	General Stat		0.6 60
ult or 1/2 SDL (beryllium)		istics	
ult or 1/2 SDL (beryllium)  Number of Valid Samples		istics  Number of Unique Samples	60
Number of Valid Samples  Raw Statistics	83	istics  Number of Unique Samples  Log-transformed Statistics	60
Number of Valid Samples  Raw Statistics  Minimum	0.0015	istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	60 -6.47 1.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0015	istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	60 -6.47 1.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0015 4.6 0.408	istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	60 -6.47 1.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0015 4.6 0.408 0.32	istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	60 -6.47 1.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0015 4.6 0.408 0.32 0.525	istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	60 -6.47 1.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0015 4.6 0.408 0.32 0.525 1.287	Istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	60 -6.47 1.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0015 4.6 0.408 0.32 0.525 1.287 6.344	Istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	60 -6.47 1.5 -1.36
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0015 4.6 0.408 0.32 0.525 1.287 6.344	istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-6.47 1.5 -1.36 1.1
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0015 4.6 0.408 0.32 0.525 1.287 6.344  Relevant UCL S	Istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	60 -6.47 1.5 -1.36 1.1
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Final Point P	0.0015 4.6 0.408 0.32 0.525 1.287 6.344  Relevant UCL S	istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  statistics  Lognormal Distribution Test  Lilliefors Test Statistic	60 -6.47 1.5 -1.36 1.1
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Critical Value	0.0015 4.6 0.408 0.32 0.525 1.287 6.344  Relevant UCL S	Istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  tatistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value	60 -6.47 1.5 -1.36 1.1
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level	0.0015 4.6 0.408 0.32 0.525 1.287 6.344  Relevant UCL S	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	60 -6.47 1.5 -1.36 1.1
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0015 4.6 0.408 0.32 0.525 1.287 6.344  Relevant UCL S 0.22 0.0973	istics    Log-transformed Statistics	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0015 4.6 0.408 0.32 0.525 1.287 6.344  Relevant UCL S 0.22 0.0973	istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Italistics  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	60 -6.47 1.5 -1.36 1.1 0.0

^			
Gamma Distribution Test	4 400	Data Distribution	
k star (bias corrected) Theta Star	1.163 0.351	Data Follow Appr. Gamma Distribution at 5% Significance	ce Level
nu star			
Approximate Chi Square Value (.05)	162	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.503
Adjusted Chi Square Value	161.5	95% Jackknife UCL	0.504
		95% Standard Bootstrap UCL	0.50
Anderson-Darling Test Statistic	0.998	95% Bootstrap-t UCL	0.59
Anderson-Darling 5% Critical Value	0.778	95% Hall's Bootstrap UCL	0.90
Kolmogorov-Smirnov Test Statistic	0.096	95% Percentile Bootstrap UCL	0.51
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	0.57
Data follow Appr. Gamma Distribution at 5% Significan	ce Level	95% Chebyshev(Mean, Sd) UCL	0.65
		97.5% Chebyshev(Mean, Sd) UCL	0.768
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.98
95% Approximate Gamma UCL	0.487		
95% Adjusted Gamma UCL	0.488		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.48
Number of Valid Samples	General St	Number of Unique Samples	44
inumber of value Samples	03	Number of Offique Samples	77
Raw Statistics		Log-transformed Statistics	
Minimum		Log transformed etailotte	
	0.0049	Minimum of Log Data	-5.318
Maximum	0.0049 0.0807		-5.318 -2.517
		Minimum of Log Data	
Maximum	0.0807 0.015 0.0056	Minimum of Log Data Maximum of Log Data	-2.517 -4.739
Maximum Mean Median SD	0.0807 0.015 0.0056 0.0197	Minimum of Log Data Maximum of Log Data Mean of log Data	-2.517 -4.739
Maximum Mean Median SD Coefficient of Variation	0.0807 0.015 0.0056 0.0197 1.313	Minimum of Log Data Maximum of Log Data Mean of log Data	-2.517 -4.739
Maximum Mean Median SD	0.0807 0.015 0.0056 0.0197	Minimum of Log Data Maximum of Log Data Mean of log Data	-2.517 -4.739
Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0807 0.015 0.0056 0.0197 1.313	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-2.517 -4.739
Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0807 0.015 0.0056 0.0197 1.313 1.973	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-2.517
Maximum Mean Median SD Coefficient of Variation Skewness	0.0807 0.015 0.0056 0.0197 1.313 1.973	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-2.517 -4.739
Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-2.517 -4.739 . 0.899
Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Lilliefors Test Statistic	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	-2.517 -4.739 . 0.899
Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value	-2.517 -4.739 . 0.899
Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	-2.517 -4.739 . 0.899
Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL 0.433 0.0973	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-2.517 -4.739 . 0.899 0.419 0.097
Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL 0.433 0.0973	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-2.517 -4.739 . 0.899 0.419 0.09
Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL 0.433 0.0973	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-2.517 -4.739 . 0.89 . 0.41 . 0.09
Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL 0.433 0.0973	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-2.517 -4.739 . 0.899 . 0.419 0.099 0.011 0.012
Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL 0.433 0.0973 0.0186	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-2.517 -4.739 . 0.899 . 0.411 . 0.09 . 0.010 . 0.010 . 0.022
Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.0807 0.015 0.0056 0.0197 1.313 1.973 Relevant UCL 0.433 0.0973	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-2.517 -4.739 . 0.89 . 0.41 . 0.09 . 0.01 . 0.02 . 0.02

Approximate Chi Square Value (.05)	142.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.018
Adjusted Chi Square Value	142.1	95% Jackknife UCL	0.018
		95% Standard Bootstrap UCL	0.018
Anderson-Darling Test Statistic	16.91	95% Bootstrap-t UCL	0.019
Anderson-Darling 5% Critical Value	0.781	95% Hall's Bootstrap UCL	0.018
Kolmogorov-Smirnov Test Statistic	0.438	95% Percentile Bootstrap UCL	0.018
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	0.019
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.024
		97.5% Chebyshev(Mean, Sd) UCL	0.028
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.036
95% Approximate Gamma UCL	0.0181		
95% Adjusted Gamma UCL	0.0181		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.024
esult or 1/2 SDL (boron)			
	General	Statistics	A.11175 - 1411 1994 1941 1914 1914
Number of Valid Samples	83	Number of Unique Samples	63
Raw Statistics	***************************************	Log-transformed Statistics	***************************************
Minimum	0.475	Minimum of Log Data	-0.744
Maximum	54.4	Maximum of Log Data	3.996
Mean	4.662	Mean of log Data	0.66
Median	1.07	SD of log Data	1.351
SD	7.296		
Coefficient of Variation	1.565		
Skewness	4.319		
	Pelevant I I	CL Statistics	
Normal Distribution Test	Nelevant OC	Lognormal Distribution Test	
Lilliefors Test Statistic	0.283	Lilliefors Test Statistic	0.261
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	7.000
95% Student's-t UCL	5.994	95% H-UCL	7.093
95% UCLs (Adjusted for Skewness)	0.004	95% Chebyshev (MVUE) UCL	8.751
95% Adjusted-CLT UCL	6.384	97.5% Chebyshev (MVUE) UCL	10.49
95% Modified-t UCL	6.057	99% Chebyshev (MVUE) UCL	13.92
Gamma Distribution Test	10044-01-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	Data Distribution	w.1616.6
k star (bias corrected)	0.672	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	6.938		
nu star	111.5		
Approximate Chi Square Value (.05)	88.15	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0471	95% CLT UCL	5.979
Adjusted Chi Square Value	87.78	95% Jackknife UCL	5.994
Adjusted Citi Square Value		· ·	
Adjusted Cili Oquale Value		95% Standard Bootstrap UCL	6.015

Anderson-Darling 5% Critical Value	0.8	95% Hall's Bootstrap UCL	12.01
Kolmogorov-Smirnov Test Statistic	0.251	95% Percentile Bootstrap UCL	6.051
Kolmogorov-Smirnov 5% Critical Value	0.102	95% BCA Bootstrap UCL	6.577
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	8.152
		97.5% Chebyshev(Mean, Sd) UCL	9.663
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	12.63
95% Approximate Gamma UCL	5,898		
95% Adjusted Gamma UCL	5.922		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	9.663
Result or 1/2 SDL (butyl benzyl phthalate)			
nesult of 112 opt (buty) belizy) pittialate;	000 00 Pin Tin Cin Printed and 10 Pin Cin Pri		
	General	Statistics	
Number of Valid Samples	83	Number of Unique Samples	45
Raw Statistics		Log-transformed Statistics	d tonings replication (Art December 2012)
Minimum	0.0054	Minimum of Log Data	-5.212
Maximum	0.297	Maximum of Log Data	-1.214
Mean	0.0187	Mean of log Data	-4.645
Median	0.0062	SD of log Data	0.914
SD	0.0388		
Coefficient of Variation	2,069		
Skewness	5.405		,
F  Normal Distribution Test	Relevant U(	CL Statistics  Lognormal Distribution Test	
Lilliefors Test Statistic	0.381	Lilliefors Test Statistic	0.407
Lilliefors Critical Value	0.0973		0.407
Data not Normal at 5% Significance Level	0.03/3	Data not Lognormal at 5% Significance Level	0.037
A consiste No. world Disable at		A	
Assuming Normal Distribution	0.0050	Assuming Lognormal Distribution	0.010
95% Student's-t UCL	0.0258	1	0.018
95% UCLs (Adjusted for Skewness)	A	95% Chebyshev (MVUE) UCL	0.021
95% Adjusted-CLT UCL	0.0284		0.025
95% Modified-t UCL	0.0262	99% Chebyshev (MVUE) UCL	0.031
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.854	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0219		****************************
nu star	141.8		
Approximate Chi Square Value (.05)	115.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.025
Adjusted Chi Square Value	114.9	95% Jackknife UCL	0.025
	***************************************	95% Standard Bootstrap UCL	0.025
Anderson-Darling Test Statistic	16.12	95% Bootstrap-t UCL	0.034
Anderson-Darling 76st Critical Value	0.788	95% Hall's Bootstrap UCL	0.058
Kolmogorov-Smirnov Test Statistic	0.427	95% Percentile Bootstrap UCL	0.026
Kolmogorov-Smirnov 5% Critical Value	0.427	95% BCA Bootstrap UCL	0.020
		' 1	0.029
Data not Gamma Distributed at 5% Significance Le	∌V€I	95% Chebyshev (Mean, Sd) UCL	
		97.5% Chebyshev(Mean, Sd) UCL	0.045

n flanksilkust star Sastilatio till sin				Total Februari		Money desir			<b>.</b>	048 F08 941	
	Ass	uming Gan	l ıma Distribi	<u>l</u> ution				99% Che	byshev(Mea	an, Sd) UCL	0.061
	that has being a self anguar anguag anguag ang that the go			amma UCL	0.0231	, e-tracker		**************************************	***************************************		***************************************
	19 PF   18 PF	95%	Adjusted G	amma UCL	0.0231	, galabada a ta da a aba and gharan a a a an ang ag ag ag ag			***************************************		
			iera abelio manara en en en manama ne asegera aca v <sup>a</sup>	**************************************		Control of the same of the strong of the str	1. 1911 - 1911 MARIE - 1920 - 1821 - 1821 - 1821 - 1821 - 1821 - 1821 - 1821 - 1821 - 1821 - 1821 - 1821 - 182	de verde de la compositione	-the alternational desired (BEP) the b	3-31	manus de la companya
		Potential U	JCL to Use			44 - 4	Us	e 95% Che	oyshev (Mea	an, Sd) UCL	0.037
esult or 1	/2 SDL (cad	lmium)									
, , , , , , , , , , , , , , , , , , ,					General	Statistics					
		Nı	ımber of Va	lid Samples	83		Access against the state of the	Nun	nber of Uniq	ue Samples	47
***************************************	***************************************	Raw St	atistics		bullion level, and the laterals—the of	aga makin mina ini karifi iyo abi i anta ia mariqi ata a	L	og-transforr	ned Statisti	CS	11-11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
*******************************	***************************************			Minimum	0.0085	**************************************				of Log Data	-4.768
				Maximum	9.71					of Log Data	2.273
	and the second of the first feet from the second			Mean	0.464			***************************************	***************************************	of log Data	-2.309
***************************************	erkeld helper however for the con-			Median	0.23	elle annum meletaran da banda dalimateri dena sa				of log Data	2.023
				SD	1.141						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	***************************************		Coefficient	of Variation	2.458	***************************************	al est to a feature serve, where the fill his best or the blesses	Principles Missian part and canada decrease the distribution	an Kandila dan mia na androma da aldernad baddide Padesid		manyania ayinkania ayaa
				Skewness	6.868		- Milantin yli qualit de i penglir magam				and the same of th
· III	and the state of t				Polovant I I	L Statistics	and fight a construction of the first translation of the first state o	and the season of production of the foreign of a	alandra de la colonia de l		
		Normal Dist	ribution Tes		relevant oc	L Statistics		anormal Di	stribution Te	<u> </u>	
***************************************				est Statistic	0.345				HIS COLUMN THE PROPERTY OF THE PARTY OF THE	est Statistic	0.221
	· · · · · · · · · · · · · · · · · · ·			ritical Value	0.0973					ritical Value	0.097
······	Data not I	Normal at 5	% Significa	nce Level			Data not Le	ognormal at	5% Signific	ance Level	
	Ass	uming Norr					Assu	ming Logno	rmal Distrib		
	A=0/ 1	101 /4 !!		lent's-t UCL	0.672		40°440°1 10°1 10°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 140°1 1			95% H-UCL	1.636
	95% (	JCLs (Adjus			0 771				hebyshev (N		1.796
errore a production and the		3	·	d-CLT UCL	0.771 0.688	gr y - 1, 11 ( ) 14 ( m a 1 km a 1 m a 1 m km a 1 m a 1 m a 1 m a 1 m a 1 m a 1 m a 1 m a 1 m a 1 m a 1 m a 1 m	· · · · · · · · · · · · · · · · · · ·		hebyshev (N nebyshev (N		2.263 3.181
			93% MO	umed-t OCL	0.000			99% C	nebysnev (n	NVOE) OCL	3.101
	G	amma Dist	ribution Tes	st			And the second s	Data Dis	tribution		· · · · · · · · · · · · · · · · · · ·
		tarif en la calabante de de la major de calabana de de la calabana de la calabana de la calabana de la calaban	k star (bias	s corrected)	0.416	Da	ta do not fo	llow a Disc	ernable Dist	ribution (0.0	5)
				Theta Star	1.116	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the second of the second o				
				nu star	69.03						
	A	pproximate			50.91	, gadinis fanjt li 19 s karajingan na sala permaaksikstronas		Nonparamet	ric Statistic		4-F
****************	**************************************			Significance	0.0471		yet with a second constant	· ////	with the state of	% CLT UCL	0.67
	***************************************	Adju	sted Chi So	quare Value	50.63	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	htv			kknife UCL	0.672
and the second s	***************************************	A J	- D. " -		0.001			95% S	tandard Boo		0.665
				est Statistic	3.831	with the the transfer of the control		<u> </u>		strap-t UCL	1.001
			_	ritical Value est Statistic	0.837 0.195	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	19 TO BE THE THE SEC OF SECTION SECTIO	***************************************	% Hall's Boo		1.548 0.696
				ritical Value	0.195			**********************	6% BCA Boo		0.822
Data	~~~~	-	n and annual management was a	nificance Le	[				oyshev(Mea	į	1.01
	. not damili	: : : : : : : : : : : : : : : : : :		,carice Le	-701		***************************************		oysnev(Mea		1.246
	Assı	uming Gam	ma Distribu	ıtion			····		oyshev(Mea		1.71
***************************************				amma UCL	0.629				, = = = = , , , , , ,	,,	
				amma UCL	0.633		411.11.11.11.11.11.11.11.11.11.11.11.11.	manage a contraction of the second	***************************************	w safe	
										) was a post of the	
		Potential U	CL to Use			And an angle of angles	Us	e 99% Cheb	yshev (Mea	n, Sd) UCL	1.71

Maximum         1.54         Maximum           Mean         0.0612         Mea           Median         0.0051         SI           SD         0.192         SI           Coefficient of Variation         3.132           Skewness         6.428           Relevant UCL Statistics           Normal Distribution Test         Lognormal Distribution Test           Lilliefors Critical Value         0.0973         Lilliefors Critical Value           Data not Normal at 5% Significance Level         Data not Lognormal at 5% Significance Level           Assuming Normal Distribution         Assuming Lognormal Distributions           95% Student's-t UCL         0.0962           95% UCLs (Adjusted for Skewness)         95% Chebyshev (           95% Adjusted-CLT UCL         0.0962           95% Modified-t UCL         0.0987         95% Chebyshev (           Gamma Distribution Test         Data Distribution           K star (blas corrected)         0.438         Data do not follow a Discernable Distribution           K star (blas corrected)         0.438         Data do not follow a Discernable Distribution           Adjusted Chi Square Value (0.05)         54.09         Nonparametric Statistic           Adjusted Chi Square Value (0.5)         54.09 <th></th> <th></th>		
Raw Statistics		
Minimum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Median   0.0612   Mea   Median   0.0051   SI   SI   SD   0.192   Coefficient of Variation   3.132   Skewness   6.428   Skewness   6.428   Skewness   6.428   Skewness   Maximum   Maximum   Maximum   Median   Maximum   Median   Maximum   Median   Maximum   Median   Maximum   Median	nique Samples	68
Minimum   0.0043   Minimum   Maximum   1.54   Maximum   Maximum   1.54   Maximum   Median   0.0612   Mea   Median   0.0051   SI   SI   SI   SI   SI   SI   SI   S	stics	
Maximum         1.54         Maximum           Mean         0.0612         Mea           Median         0.0051         SI           SD         0.192         SI           Coefficient of Variation         3.132           Skewness         6.428           Relevant UCL Statistics           Normal Distribution Test         Lognormal Distribution Test           Lilliefors Critical Value         0.0973         Lilliefors Command Distribution Test           Data not Normal at 5% Significance Level         Data not Lognormal at 5% Significance Level         Data not Lognormal Distribution Assuming Lognormal Distribution Significance           Assuming Normal Distribution         Assuming Lognormal Distribution Pst Gamma Distribution Test         0.0962           95% UCLs (Adjusted for Skewness)         95% Chebyshev (Distribution Pst Gamma Distribution Test         Data Distribution Dest Data Distribution Distribution Test           Gamma Distribution Test         Data Distribution Data Distribution Distribution Distribution Test Data Distribution Data Data Distribution Data Distribution Data Data Distribution Data Data Distribution Data Data Data Data Data Distribution Data Data Data Data Data Data Data Dat	m of Log Data	-5,444
Mean         0.0612         Mea           Median         0.0051         SI           SD         0.192         SI           Coefficient of Variation         3.132           Skewness         6.428           Relevant UCL Statistics           Normal Distribution Test         Lognormal Distribution Test           Lilliefors Critical Value         0.0973         Lilliefors Common Lilliefo	ım of Log Data	0.43
Median   0.0051   SI	ean of log Data	-4.24
Relevant UCL Statistics   Relevant UCL Statistics	SD of log Data	1.4
Relevant UCL Statistics  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Data not Normal Distribution Assuming Normal Distribution P5% Student's-t UCL P5% UCLs (Adjusted for Skewness) P5% Adjusted-CLT UCL P5% Modified-t UCL P5% Modified-t UCL P5% Modified-t UCL P5% Modified-t UCL P5% Data not follow a Discernable Distribution R star (bias corrected) Approximate Chi Square Value Adjusted Chi Square Value Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling Test Statistic Normal Distributed at 5% Significance Level  Relevant UCL Statistics Data Distribution Test Data not Lognormal Distribution Test Data Data not Collow a Discernable Distribution Test Data Distribution Data do not follow a Discernable Distribution Test Data Distribution Test Data Distribution Data do not follow a Discernable Distribution Test Data Distribution Data do not follow a Discernable Distribution Data do not follow a Discern		***************************************
Relevant UCL Statistics  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Data not Lognormal Distribution Assuming Lognormal Distribution P5% Student's-t UCL D0.0962 P5% UCLs (Adjusted for Skewness) P5% Adjusted-CLT UCL P55% Modified-t UCL P55% Modified-t UCL P55% Modified-t UCL P55% Modified-t UCL D0.0987 Data do not follow a Discernable Distribution R star (bias corrected) R Data do not follow a Discernable Distribution R Star (bias corrected) R Data do not follow a Discernable Distribution R Star (bias corrected) R Data do not follow a Discernable Distribution R Star (bias corrected) P5% Data do not follow a Discernable Distribution R Star (bias corrected) P54.09 R Nonparametric Statistic R Adjusted Level of Significance P5% Ja P5% Ja P5% Ja P5% Standard Bo P5% Ja R Anderson-Darling Test Statistic P5% P6% P6% B6A Bo R Kolmogorov-Smirnov Test Statistic P5% Significance Level P5% Chebyshev(Me		
Normal Distribution Test  Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Data not Lognormal Distribution Assuming Lognormal Distribution Assuming Lognormal Distribution Description Distribution Description Distribution Description Test Data Distribution Data Distribution Astar (blas corrected) Data Data do not follow a Discernable Distribution Description Distribution Data D		
Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Data not Normal at 5% Significance Level Data not Lognormal Distribution Assuming Lognormal Distribution Assuming Lognormal Distribution Distribution Distribution Test Distribution Data Distribution Data Distribution Astar (blas corrected) Data Data do not follow a Discernable Distribution Data		
Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Chebyshev ( 95% Adjusted-CLT UCL 97.5% Chebyshev ( 95% Modified-t UCL 95% Modified-t UCL 95% Modified-t UCL 95% Modified-t UCL 95% Data do not follow a Discernable D	Test	
Lilliefors Critical Value  Data not Normal at 5% Significance Level  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL 95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL 95% Modified-t UCL 95% Data do not follow a Discernable Dis 1	Test Statistic	0.30
Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL  95% Chebyshev (  0.0987  99% Chebyshev (  0.438  Data do not follow a Discernable Dis  Theta Star  10.14  10.14  10.14  10.14  10.14  10.14  10.14  10.14  10.14  10.15  Adjusted Level of Significance  95% Jau  40justed Level of Significance  95% Jau  95% Standard Bo  95% Standard Bo  95% Standard Bo  95% Boo  Anderson-Darling Test Statistic  9.829  95% Boo  Anderson-Darling 5% Critical Value  0.831  95% Hall's Bo  Kolmogorov-Smirnov Test Statistic  0.284  95% Percentile Bo  Kolmogorov-Smirnov 5% Critical Value  0.104  95% BCA Bo  Data not Gamma Distributed at 5% Significance Level	Critical Value	0.09
95% Student's-t UCL		
95% Student's-t UCL		
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Chebyshev ( 95% Cheb		
95% Adjusted-CLT UCL 0.112 97.5% Chebyshev ( 95% Modified-t UCL 0.0987 99% Chebyshev (  Gamma Distribution Test Data Distribution  k star (bias corrected) 0.438 Data do not follow a Discernable Disc	95% H-UCL	0.0
Gamma Distribution Test  Bata do not follow a Discernable Discerna		0.0
Gamma Distribution Test  k star (bias corrected) 0.438  Data do not follow a Discernable D	·	0.09
k star (bias corrected) 0.438 Data do not follow a Discernable Dis	(MVUE) UCL	0.12
Theta Star         0.14           nu star         72.73           Approximate Chi Square Value (.05)         54.09         Nonparametric Statistic           Adjusted Level of Significance         0.0471         95           Adjusted Chi Square Value         53.81         95% Ja           Adjusted Chi Square Value         53.81         95% Standard Bo           Anderson-Darling Test Statistic         9.829         95% Boo           Anderson-Darling 5% Critical Value         0.831         95% Hall's Bo           Kolmogorov-Smirnov Test Statistic         0.284         95% Percentile Bo           Kolmogorov-Smirnov 5% Critical Value         0.104         95% BCA Bo           Data not Gamma Distributed at 5% Significance Level         95% Chebyshev(Me		
nu star         72.73           Approximate Chi Square Value (.05)         54.09         Nonparametric Statistic           Adjusted Level of Significance         0.0471         95           Adjusted Chi Square Value         53.81         95% Ja           Adjusted Chi Square Value         53.81         95% Standard Bo           Anderson-Darling Test Statistic         9.829         95% Boo           Anderson-Darling 5% Critical Value         0.831         95% Hall's Bo           Kolmogorov-Smirnov Test Statistic         0.284         95% Percentile Bo           Kolmogorov-Smirnov 5% Critical Value         0.104         95% BCA Bo           Data not Gamma Distributed at 5% Significance Level         95% Chebyshev(Me	istribution (0.05	5)
Approximate Chi Square Value (.05) 54.09  Adjusted Level of Significance 0.0471  Adjusted Chi Square Value 53.81  95% Ja  Adjusted Chi Square Value 53.81  95% Standard Bo  Anderson-Darling Test Statistic 9.829  Anderson-Darling 5% Critical Value 0.831  Kolmogorov-Smirnov Test Statistic 0.284  Pata not Gamma Distributed at 5% Significance Level  Nonparametric Statistic 9.54  95% Anderson-Darling 5% Critical Value 0.831  95% BCA Bo  Data not Gamma Distributed at 5% Significance Level		***************************************
Adjusted Level of Significance 0.0471 95  Adjusted Chi Square Value 53.81 95% Ja  95% Standard Bo  Anderson-Darling Test Statistic 9.829 95% Boo  Anderson-Darling 5% Critical Value 0.831 95% Hall's Bo  Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo  Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	and the transfer control and where the control and the control	
Adjusted Chi Square Value 53.81 95% Ja 95% Standard Bo Anderson-Darling Test Statistic 9.829 95% Boo Anderson-Darling 5% Critical Value 0.831 95% Hall's Bo Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	tics	g-11
Anderson-Darling Test Statistic 9.829 95% Boo Anderson-Darling 5% Critical Value 0.831 95% Hall's Bo Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	95% CLT UCL	0.0
Anderson-Darling Test Statistic 9.829 95% Boo Anderson-Darling 5% Critical Value 0.831 95% Hall's Bo Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	Jackknife UCL	0.0
Anderson-Darling 5% Critical Value 0.831 95% Hall's Bo Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic 0.284 95% Percentile Bo Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	ootstrap-t UCL	0.17
Kolmogorov-Smirnov 5% Critical Value 0.104 95% BCA Bo Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	Bootstrap UCL	0.24
Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	Bootstrap UCL	0.0
- '	Bootstrap UCL	0.12
97.5% Chehyshay/Me	lean, Sd) UCL	0.18
37.5% Chebyshov(Me	lean, Sd) UCL	0.19
Assuming Gamma Distribution 99% Chebyshev(Me	lean, Sd) UCL	0.27
95% Approximate Gamma UCL 0.0823		
95% Adjusted Gamma UCL 0.0827		
Potential UCL to Use Use 97.5% Chebyshev (Me	lean. Sd) UCL	0.19

			E SECTION
Mean	0.409	Mean of log Data	-2.736
Median	0.0493		2.052
SD	0.836	OD OT 109 Date	
Coefficient of Variation	2.044		
Skewness	3.079		.,
Normal Distribution Test	Relevant U(	CL Statistics  Lognormal Distribution Test	
Lilliefors Test Statistic	0.322	Lilliefors Test Statistic	0.098
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level	0.0070	Data not Lognormal at 5% Significance Level	0.007
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.562	95% H-UCL	1.156
95% UCLs (Adjusted for Skewness)	0.002	95% Chebyshev (MVUE) UCL	1.256
95% Adjusted-CLT UCL	0.593	97.5% Chebyshev (MVUE) UCL	1.586
95% Modified-t UCL	0.567	99% Chebyshev (MVUE) UCL	2.233
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.358	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	1.142		
nu star	59.42		
Approximate Chi Square Value (.05)	42.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.56
Adjusted Chi Square Value	42.45	95% Jackknife UCL	0.562
		95% Standard Bootstrap UCL	0.557
Anderson-Darling Test Statistic	3.941	95% Bootstrap-t UCL	0.617
Anderson-Darling 5% Critical Value	0.851	95% Hall's Bootstrap UCL	0.604
Kolmogorov-Smirnov Test Statistic	0.203	95% Percentile Bootstrap UCL	0.57
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.607
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.809
	and the Land	97.5% Chebyshev(Mean, Sd) UCL	0.982
Assuming Gamma Distribution	as professions	99% Chebyshev(Mean, Sd) UCL	1.322
95% Approximate Gamma UCL	0.569		
95% Adjusted Gamma UCL	0.572		
Potential UCL to Use	acceptance (VVV)	Use 99% Chebyshev (Mean, Sd) UCL	1.322
esult or 1/2 SDL (cobalt)	nion-parameter de la contraction de la contracti		
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	79
Raw Statistics		Log-transformed Statistics	
Minimum	0.0125	Minimum of Log Data	-4.382
Maximum	16	Maximum of Log Data	2.773
Mean	3.705	Mean of log Data	1.069
Median	3.49	SD of log Data	0.946
SD	2.249		1.55 20. 1.50.200 <u>4</u> 8.5400,445.55 14.40.200
Coefficient of Variation	0.607		
Skewness	2.18		

			1000 C
	Relevant UCL S	Statictice	
Normal Distribution Test	Televant OCL C	Lognormal Distribution Test	
Lilliefors Test Statistic	0.107	Lilliefors Test Statistic	0.1
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.0
Data not Normal at 5% Significance Level	0.0070	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	4.116	95% H-UCL	5.7
95% UCLs (Adjusted for Skewness)	4.110	95% Chebyshev (MVUE) UCL	6.9
	4.175	97.5% Chebyshev (MVUE) UCL	7.9
95% Adjusted-CLT UCL			
95% Modified-t UCL	4.126	99% Chebyshev (MVUE) UCL	10
Gamma Distribution Test	antina - Separa military and separate s	Data Distribution	
k star (bias corrected)	2.153	Data do not follow a Discernable Distribution (0.05	)
Theta Star	1.721		
nu star	357.5		<b>********</b>
Approximate Chi Square Value (.05)	314.7	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0471	95% CLT UCL	4.
Adjusted Chi Square Value	313.9	95% Jackknife UCL	4.
		95% Standard Bootstrap UCL	4.
Anderson-Darling Test Statistic	1.75	95% Bootstrap-t UCL	4.1
Anderson-Darling 5% Critical Value	0.763	95% Hall's Bootstrap UCL	4.2
Kolmogorov-Smirnov Test Statistic	0.112	95% Percentile Bootstrap UCL	4.1
Kolmogorov-Smirnov 5% Critical Value	0.0993	95% BCA Bootstrap UCL	4.
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	4.7
		97.5% Chebyshev(Mean, Sd) UCL	5.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	6.
95% Approximate Gamma UCL	4.21		·
95% Adjusted Gamma UCL	4.219		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			o
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	4.
It or 1/2 SDL (copper)			
	General Stat	istics	
Number of Valid Samples	83	Number of Unique Samples	78
Raw Statistics	**************************************	Log-transformed Statistics	
Minimum	1.55	Minimum of Log Data	0.4
Maximum	216	Maximum of Log Data	5.3
Mean	27.98	Mean of log Data	2.9
Median	16.4	SD of log Data	0.8
SD	35.35		. D. 144 - C. 1111
Coefficient of Variation	1.263		***************************************
Skewness	3.794		
encontrol de la control de F	Relevant UCL S	otatistics .	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.26	Lilliefors Test Statistic	0.0
Fillipiota Lear argustica			

大雅 15 元 1885 】 " ( ) ( ) 4 数据第四元数据系统编码系统			[24]26학자 김 - [교육 4년 하는 16] 교회 문화 전 최대, 원호분의 경화학교 전환 10 [2] 전략 17 [급환경투 설환	ere e di de la c
Data not Normal at 5%	Significance Level		Data appear Lognormal at 5% Significance Leve	<u>                                     </u>
		<u> </u>		
Assuming Norma	al Distribution		Assuming Lognormal Distribution	la led a la combed a la l
annandaminingunumbis. Saedeedisminingunumbigishisingungaatamid pamagaa	95% Student's-t UCL	34.43	95% H-UCL	32.45
95% UCLs (Adjuste	ed for Skewness)		95% Chebyshev (MVUE) UCL	38.82
	% Adjusted-CLT UCL	36.09	97.5% Chebyshev (MVUE) UCL	44.12
	95% Modified-t UCL	34.7	99% Chebyshev (MVUE) UCL	54.55
Gamma Distrib			Data Distribution	degala kilandun Piparangan andan
AND THE STREET OF THE STREET O	k star (bias corrected)	1.342	Data appear Lognormal at 5% Significance Leve	***************************************
entern pannen minimen per en princis in district schollen må belatal likeli brinnen en in den met en in besent	Theta Star	20.85		patrian regreg and a transcript a series
ngovinorennerhongadionibilisterioringaniminaanna a.i.a. unnosimiesinsianna.	nu star	222.7		
	hi Square Value (.05)	189.2	Nonparametric Statistics	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
•	Level of Significance	0.0471	95% CLT UCL	34.36
Adjus	ted Chi Square Value	188.6	95% Jackknife UCL	34.43
	and		95% Standard Bootstrap UCL	34.22
Anderson	-Darling Test Statistic	3.103	95% Bootstrap-t UCL	37.53
Anderson-Dar	ling 5% Critical Value	0.773	95% Hall's Bootstrap UCL	39.93
Kolmogorov-S	Smirnov Test Statistic	0.147	95% Percentile Bootstrap UCL	34.91
Kolmogorov-Smir	nov 5% Critical Value	0.1	95% BCA Bootstrap UCL	36.81
Data not Gamma Distributed	at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	44.89
en afrika u dan anne denn urbi ten efflæra furbindi de delpfleten effletiffleten efter effere er beredi an amenad ina			97.5% Chebyshev(Mean, Sd) UCL	52.21
Assuming Gamm	a Distribution		99% Chebyshev(Mean, Sd) UCL	66.58
95% Appro	oximate Gamma UCL	32.94		,,,(m,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
95% A	djusted Gamma UCL	33.04		
total populario kao o mangala inga orang kalamahan peranggaran mga mga mga wasan kalamaran na mga mga mga mga m				
Potential UC	CL to Use		Use 95% H-UCL	32.45
Potential UC			Use 95% H-UCL	32.45
		General Sta		32.45
esult or 1/2 SDL (dibenz(a,h)anthra		General Sta		32.45 78
esult or 1/2 SDL (dibenz(a,h)anthra	acene)	***************************************	Itistics  Number of Unique Samples	
esult or 1/2 SDL (dibenz(a,h)anthra	acene)  ber of Valid Samples	83	Number of Unique Samples Log-transformed Statistics	78
esult or 1/2 SDL (dibenz(a,h)anthra	acene)  aber of Valid Samples istics  Minimum	0.0042	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	78
esult or 1/2 SDL (dibenz(a,h)anthra	acene)  ber of Valid Samples istics  Minimum Maximum	0.0042	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	78 -5.466 0.49
esult or 1/2 SDL (dibenz(a,h)anthra	acene)  aber of Valid Samples  istics  Minimum  Maximum  Mean	0.0042 1.64 0.155	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	78 -5.466 0.49 -3.578
esult or 1/2 SDL (dibenz(a,h)anthra	acene)  aber of Valid Samples  istics  Minimum  Maximum  Mean  Median	0.0042 1.64 0.155 0.0061	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	78 -5.466 0.49 -3.578
esult or 1/2 SDL (dibenz(a,h)anthra	acene)  iber of Valid Samples  istics  Minimum  Maximum  Mean  Median  SD	0.0042 1.64 0.155 0.0061 0.303	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	78 -5.466 0.49 -3.578
esult or 1/2 SDL (dibenz(a,h)anthra	acene)  aber of Valid Samples istics  Minimum  Maximum  Mean  Median  SD oefficient of Variation	0.0042 1.64 0.155 0.0061 0.303 1.952	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	78 -5.466 0.49 -3.578
esult or 1/2 SDL (dibenz(a,h)anthra	acene)  iber of Valid Samples  istics  Minimum  Maximum  Mean  Median  SD	0.0042 1.64 0.155 0.0061 0.303	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	
esult or 1/2 SDL (dibenz(a,h)anthra	istics  Minimum  Maximum  Mean  Median  SD  oefficient of Variation  Skewness	0.0042 1.64 0.155 0.0061 0.303 1.952	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	78 -5.466 0.49 -3.578
esult or 1/2 SDL (dibenz(a,h)anthra	istics Minimum Maximum Mean Median SD oefficient of Variation Skewness	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	78 -5.466 0.49 -3.578
Parameter of 1/2 SDL (dibenz(a,h)anthrance of 1/2 SDL (dibenz(a,h)	istics Minimum Maximum Mean Median SD oefficient of Variation Skewness	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	78 -5.466 0.49 -3.578 1.96
Psult or 1/2 SDL (dibenz(a,h)anthra	acene)  aber of Valid Samples  istics  Minimum  Mean  Median  SD  oefficient of Variation  Skewness	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	78 -5.466 0.49 -3.578 1.96
Psult or 1/2 SDL (dibenz(a,h)anthra	istics  Minimum  Maximum  Median  SD oefficient of Variation  Skewness  Fution Test  illiefors Test Statistic	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	78 -5.466 0.49 -3.578 1.96
Posta not Normal at 5%	acene)  aber of Valid Samples  istics  Minimum  Maximum  Median  SD  oefficient of Variation  Skewness  Foution Test  illiefors Test Statistic  illiefors Critical Value  Significance Level	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	78 -5.466 0.49 -3.578 1.96
Normal Distrib  Data not Normal at 5%  Assuming Norma	acene)  aber of Valid Samples  istics  Minimum  Maximum  Median  SD  oefficient of Variation  Skewness  Foution Test  illiefors Test Statistic  illiefors Critical Value  Significance Level	0.0042 1.64 0.155 0.0061 0.303 1.952 3.008	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value	78 -5.466 0.49 -3.578

95% Adjusted-CLT UCL 95% Modified-t UCL 95% Modified-t UCL 0.212  Gamma Distribution Test k star (bias corrected) 0.38 Theta Star 0.408 nu star 63.11 Approximate Chi Square Value (.05) 45.83 Adjusted Level of Significance 0.047 Adjusted Chi Square Value 45.57  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic 0.285 Kolmogorov-Smirnov 5% Critical Value 0.105 Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL 0.215  Potential UCL to Use	Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.556 0.779 5) 0.21 0.21 0.229 0.225 0.214 0.222 0.3 0.363 0.486
Gamma Distribution Test  k star (bias corrected) 0.38  Theta Star 0.408  nu star 63.11  Approximate Chi Square Value (.05) 45.83  Adjusted Level of Significance 0.047  Adjusted Chi Square Value 45.57  Anderson-Darling Test Statistic 6.568  Anderson-Darling 5% Critical Value 0.846  Kolmogorov-Smirnov Test Statistic 0.288  Kolmogorov-Smirnov 5% Critical Value 0.108  Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution  95% Approximate Gamma UCL 0.214  95% Adjusted Gamma UCL 0.215  Potential UCL to Use	Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.21 0.21 0.21 0.229 0.229 0.212 0.222 0.3 0.363 0.486
k star (bias corrected)  Theta Star  O.408  nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Adjusted Chi Square Value Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic O.285 Kolmogorov-Smirnov 5% Critical Value O.105 Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL O.215 Potential UCL to Use	Nonparametric Statistics  95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.21 0.21 0.22 0.22 0.22 0.21 0.22 0.3 0.36 0.486
k star (bias corrected)  Theta Star  O.408  nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Adjusted Chi Square Value Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic O.285 Kolmogorov-Smirnov 5% Critical Value O.105 Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL O.215 Potential UCL to Use	Nonparametric Statistics  95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.21 0.21 0.22 0.225 0.214 0.222 0.3 0.363 0.486
Theta Star  nu star 63.11  Approximate Chi Square Value (.05)  Adjusted Level of Significance 0.047  Adjusted Chi Square Value 45.57  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic 0.285  Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL 0.215  Potential UCL to Use	Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.21 0.21 0.22 0.22 0.22 0.21 0.22 0.3 0.363 0.486
Approximate Chi Square Value (.05) 45.83  Adjusted Level of Significance 0.047  Adjusted Chi Square Value 45.57  Anderson-Darling Test Statistic 6.569  Anderson-Darling 5% Critical Value 0.846  Kolmogorov-Smirnov Test Statistic 0.285  Kolmogorov-Smirnov 5% Critical Value 0.105  Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution  95% Approximate Gamma UCL 0.214  95% Adjusted Gamma UCL 0.215  Potential UCL to Use	Nonparametric Statistics  95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.21 0.229 0.229 0.214 0.222 0.3 0.363 0.486
Approximate Chi Square Value (.05)  Adjusted Level of Significance O.047 Adjusted Chi Square Value Adjusted Chi Square Value 45.57  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic O.285 Kolmogorov-Smirnov 5% Critical Value O.105 Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL O.215  Potential UCL to Use	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.21 0.22 0.22 0.21 0.22 0.3 0.363 0.486
Adjusted Level of Significance Adjusted Chi Square Value Adjusted Chi Square Value 45.57  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Colorov-Smirnov Test Statistic Colorov-Smirnov 5% Critical Value Colorov-Smirnov 5% Cri	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.21 0.229 0.229 0.214 0.222 0.3 0.363 0.486
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value O.846 Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value O.105 Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL 0.215  Potential UCL to Use	95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.21 0.225 0.225 0.214 0.222 0.3 0.363 0.486
Anderson-Darling Test Statistic 6.568 Anderson-Darling 5% Critical Value 0.846 Kolmogorov-Smirnov Test Statistic 0.285 Kolmogorov-Smirnov 5% Critical Value 0.105 Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution 95% Approximate Gamma UCL 0.214 95% Adjusted Gamma UCL 0.215  Potential UCL to Use	95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.229 0.229 0.214 0.222 0.3 0.363 0.486
Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value  0.105  Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution  95% Approximate Gamma UCL  95% Adjusted Gamma UCL  0.215  Potential UCL to Use	95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.229 0.214 0.222 0.3 0.363 0.486
Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value  0.105  Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution  95% Approximate Gamma UCL  95% Adjusted Gamma UCL  0.215  Potential UCL to Use	95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.214 0.222 0.3 0.360 0.486
Kolmogorov-Smirnov Test Statistic 0.285 Kolmogorov-Smirnov 5% Critical Value 0.105 Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution 95% Approximate Gamma UCL 0.214 95% Adjusted Gamma UCL 0.215  Potential UCL to Use  ult or 1/2 SDL (dibenzofuran)	95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.222 0.3 0.363 0.486
Kolmogorov-Smirnov 5% Critical Value 0.105  Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution  95% Approximate Gamma UCL 0.214  95% Adjusted Gamma UCL 0.215  Potential UCL to Use	95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.3 0.36 0.486
Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution  95% Approximate Gamma UCL  0.214  95% Adjusted Gamma UCL  0.215  Potential UCL to Use  sult or 1/2 SDL (dibenzofuran)	97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.363 0.486
95% Approximate Gamma UCL 0.214 95% Adjusted Gamma UCL 0.215  Potential UCL to Use  sult or 1/2 SDL (dibenzofuran)	97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.486
95% Approximate Gamma UCL 0.214 95% Adjusted Gamma UCL 0.215 Potential UCL to Use  sult or 1/2 SDL (dibenzofuran)	99% Chebyshev(Mean, Sd) UCL	
95% Approximate Gamma UCL 0.214 95% Adjusted Gamma UCL 0.215  Potential UCL to Use  sult or 1/2 SDL (dibenzofuran)		0.363
95% Adjusted Gamma UCL 0.215  Potential UCL to Use  sult or 1/2 SDL (dibenzofuran)		0.363
ult or 1/2 SDL (dibenzofuran)	Use 97.5% Chebyshev (Mean, Sd) UCL	0.363
sult or 1/2 SDL (dibenzofuran)		0.000
Number of Valid Samples 83	Number of Unique Samples	48
Raw Statistics	Log-transformed Statistics	
Minimum 0.006		-5.083
Maximum 0.821		-0.197
Mean 0.037		-4.288
Median 0.007		1.133
SD 0.107		1.10
Coefficient of Variation 2.831		
Skewness 6.111	1	sages de la company de la comp
Relevant I	JCL Statistics	***************************************
Normal Distribution Test	Lognormal Distribution Test	
Lilliefors Test Statistic 0.384	Lilliefors Test Statistic	0.376
Lilliefors Critical Value 0.097	3 Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	Assuming Lognormal Distribution	Andre Antonia ( )
95% Student's-t UCL 0.057		0.035
95% UCLs (Adjusted for Skewness)	95% Chebyshev (MVUE) UCL	0.043
95% Adjusted-CLT UCL 0.065		0.050
95% Modified-t UCL 0.058		0.065
Gamma Distribution Test  k star (bias corrected) 0.594	Data Distribution  Data do not follow a Discernable Distribution (0.05	

	TE SWEET SE		
Theta Sta	r 0.0636	(5)	
nu sta			
Approximate Chi Square Value (.05		Nonparametric Statistics	
Adjusted Level of Significance	1	95% CLT UCL	0.057
Adjusted Chi Square Value	e 76.42	95% Jackknife UCL	0.057
		95% Standard Bootstrap UCL	0.056
Anderson-Darling Test Statistic	13.02	95% Bootstrap-t UCL	0.104
Anderson-Darling 5% Critical Value	0.808	95% Hall's Bootstrap UCL	0.15
Kolmogorov-Smirnov Test Statistic	0.378	95% Percentile Bootstrap UCL	0.058
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	0.068
Data not Gamma Distributed at 5% Significance I	_evel	95% Chebyshev(Mean, Sd) UCL	0.089
		97.5% Chebyshev(Mean, Sd) UCL	0.111
Assuming Gamma Distribution	0.0400	99% Chebyshev(Mean, Sd) UCL	0.155
95% Approximate Gamma UCL 95% Adjusted Gamma UCL			
95% Adjusted Gamma OCL	. 0.0488		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.111
esult or 1/2 SDL (dieldrin)			
	General S	Statistics	·
Number of Valid Samples	83	Number of Unique Samples	57
Raw Statistics		Log-transformed Statistics	
	7.0000E-5	Minimum of Log Data	-9.567
Maximum	0.0205	Maximum of Log Data	-3.887
Mear	9.9705E-4	Mean of log Data	-8.475
Mediar	8.3000E-5	SD of log Data	1.456
SD	0.0030		***************************************
Coefficient of Variation	3.053		
Skewness	5.171		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	0.044
Lilliefors Test Statistic		Lilliefors Test Statistic  Lilliefors Critical Value	0.314
Data not Normal at 5% Significance Level	0.0973	Data not Lognormal at 5% Significance Level	0.097
Data not Normal at 3% Significance Level		Data not cognomial at 3% dignificance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0015	95% H-UCL	9.2982E-4
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0017	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0015	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.411	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0024		DE ROMAN MENTAL PROPERTY
nu star	68.17		
Approximate Chi Square Value (.05)	50.17	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.001
Adjusted Chi Square Value	49.9	95% Jackknife UCL	0.001

	Y 1365 2	95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	12.18	95% Bootstrap-t UCL	0.002
Anderson-Darling 5% Critical Value	0.838	95% Hall's Bootstrap UCL	0.003
Kolmogorov-Smirnov Test Statistic	0.309	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.001
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.003
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.004
95% Approximate Gamma UCL	0.0013		
95% Adjusted Gamma UCL	0.0013		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.003
Result or 1/2 SDL (di-n-butyl phthalate)			
	General	Statistics	3873-101-14538-1850-1 <sub>2</sub> 3346-3 <sub>1-1</sub> -14-31-1453-1453-1
Number of Valid Samples	83	Number of Unique Samples	55
Raw Statistics		Log-transformed Statistics	- 1444,444 1444 1444 1444 1444 1444 1444
Minimum	0.0126	Minimum of Log Data	-4.378
Maximum	0.753	Maximum of Log Data	-0.284
Mean	0.048	Mean of log Data	-3.781
Median	0.0143	SD of log Data	0.966
SD	0.102		uemennen, aum monimi
Coefficient of Variation	2.121		
Skewness	4.995		was 1100 and 1100 and 1000 and
	Relevant U0	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.375	Lilliefors Test Statistic	0.401
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	and the state of t
95% Student's-t UCL	0.0666	95% H-UCL	0.045
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.055
95% Adjusted-CLT UCL	0.0729	97.5% Chebyshev (MVUE) UCL	0.064
95% Modified-t UCL	0.0676	99% Chebyshev (MVUE) UCL	0.081
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.777	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0618		galant a garanth a t mana a a gant gan a garaga a garag
nu star	129		.,
Approximate Chi Square Value (.05)	103.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.066
Adjusted Chi Square Value	103.4	95% Jackknife UCL	0.066
	***************************************	95% Standard Bootstrap UCL	0.066
Anderson-Darling Test Statistic	15.92	95% Bootstrap-t UCL	0.083
Anderson-Darling 5% Critical Value	0.791	95% Hall's Bootstrap UCL	0.129
Kolmogorov-Smirnov Test Statistic	0.421	95% Percentile Bootstrap UCL	0.069
Kolmogorov-Smirnov 5% Critical Value	0.102	95% BCA Bootstrap UCL	0.074

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Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.096
Data not Gamina Distributed at 376 Significance L	.6461	97.5% Chebyshev(Mean, Sd) UCL	0.09
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.15
95% Approximate Gamma UCL	0.0597	99% Criebysnev (Mean, Su) OCL	0.13
95% Adjusted Gamma UCL	0.0597		
95% Adjusted Gamma OCL	0.0599		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.090
lesult or 1/2 SDL (endosulfan sulfate)			
	General S	tatistics	
Number of Valid Samples	83	Number of Unique Samples	63
Day, Otalialia		Landan and Challadian	
Raw Statistics	1 20505 4	Log-transformed Statistics	-8.929
Maximum	1.3250E-4 0.0713	Minimum of Log Data  Maximum of Log Data	-0.929
Mean	0.0713	Mean of log Data	-8.01
	1.5450E-4	SD of log Data	1.39
SD	0.0084	OD OI IOG DALA	1.03
Coefficient of Variation	4.216		
Skewness	7.243		**************************************
	L		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic		Lilliefors Test Statistic	0.34
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0035	95% H-UCL	0.00
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0043	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0036	99% Chebyshev (MVUE) UCL	0.00
			***************************************
Gamma Distribution Test k star (bias corrected)	0.365	Data Distribution  Data do not follow a Discernable Distribution (0.05)	
K star (blas corrected) Theta Star	0.0054	Data do not follow a Discernable Distribution (0.03	)) 
nu stari	60.65		
Approximate Chi Square Value (.05)	43.74	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.00
Adjusted Chi Square Value	43.48	95% Jackknife UCL	0.00
rajasiou Om Oquare Value	.0.40	95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	15.84	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.849	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.343	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Lo		95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.01
95% Approximate Gamma UCL	0.0027		
95% Adjusted Gamma UCL	0.0027		

Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.00
sult or 1/2 SDL (endrin aldehyde)			
	General Stati	istics	
Number of Valid Samples	83	Number of Unique Samples	69
	had to Path at the first over the table of the first over the firs		
Raw Statistics		Log-transformed Statistics	
andronnes de la francia de la	1.6800E-4	Minimum of Log Data	-8.69
Maximum	0.0738	Maximum of Log Data	-2.60
Mean	0.0023	Mean of log Data	-7.72
	1.9500E-4	SD of log Data	1.42
SD Confficient (Notice)	0.0089		***************************************
Coefficient of Variation Skewness	3.782 6.88		
		1	
Normal Distribution Test	Relevant UCL S		
Lilliefors Test Statistic	0.403	Lognormal Distribution Test  Lilliefors Test Statistic	0.36
Lilliefors Critical Value	0.403	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level	0.0373	Data not Lognormal at 5% Significance Level	0.03
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0039	95% H-UCL	0.00
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0047	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0041	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	Complete of the particular of
k star (bias corrected)	0.387	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0061		***************************************
nu star	64.22		
Approximate Chi Square Value (.05)	46.78	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0471	95% CLT UCL	0.00
Adjusted Chi Square Value	46.52	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	14.52	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.844	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.363	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.01
95% Approximate Gamma UCL	0.0032		<del></del>
95% Adjusted Gamma UCL	0.0032		Nov Product of the Control
		Use 97.5% Chebyshev (Mean, Sd) UCL	0.00

Result or 1/2 SDL (endrin ketone)

		atistics	
Number of Valid Samples	83	Number of Unique Samples	67
Raw Statistics	2.1300E-4	Log-transformed Statistics	-8.45
Maximum		Minimum of Log Data Maximum of Log Data	-8.45 -3.91
Mean	0.0016	Mean of log Data	-3.91
	2.4500E-4	SD of log Data	1.3
SD	0.0034	Ob or log but	
Coefficient of Variation	2.05		
Skewness	ļ		
	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.359	Lilliefors Test Statistic	0.3
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.0
Data not Normal at 5% Significance Level	L	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0,0023	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0024	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0023	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.528	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0031		
nu star	87.68		
Approximate Chi Square Value (.05)	67.09	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0
Adjusted Chi Square Value	66.77	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	13.72	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.815	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.373	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.103	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.0
A Distillution		97.5% Chebyshev (Mean, Sd) UCL	0.0
Assuming Gamma Distribution  95% Approximate Gamma UCL	0.0021	99% Chebyshev(Mean, Sd) UCL	0.00
95% Adjusted Gamma UCL	0.0021		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.0
ılt or 1/2 SDL (fluoranthene)			
	General Sta	tistics	
- West distribution of the control o	ALTERNATION AND AND AND AND AND AND AND AND AND AN		
Number of Valid Samples	83	Number of Unique Samples	78

		Tanga T	Table 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		11.5
		Minimum	0.0053	Minimum of Log Data	-5.231
		Maximum	14.2	Maximum of Log Data	2.653
***************************************		Mean	0.799	Mean of log Data	-2.284
	PHIRANGARIA (ARIA) TITATE PIRA BIRA BIRA BIRA BIRA BIRA BIRA BIRA B	Median	0.0748		2.188
		SD	1.943		······································
	Coefficient o		2.431		
		Skewness	4.772		
		1			
d rayber year has bage made brilliantingen of the	Normal Distribution Test		lelevant U(	CL Statistics  Lognormal Distribution Test	
	Lilliefors Te	st Statistic	0.341	Lilliefors Test Statistic	0.089
	Lilliefors Cri		0.0973	Lilliefors Critical Value	0.097
alardalarina da anticolorida de la composição de la compo	Data not Normal at 5% Significan	j		Data appear Lognormal at 5% Significance Level	
***************************************	Assuming Normal Distributi			Assuming Lognormal Distribution	
	95% Stude	1	1.154	95% H-UCL	2.656
	95% UCLs (Adjusted for Skev	•		95% Chebyshev (MVUE) UCL	2.735
	95% Adjusted	-CLT UCL	1.269	97.5% Chebyshev (MVUE) UCL	3.477
	95% Modi	fied-t UCL	1.173	99% Chebyshev (MVUE) UCL	4.936
	Gamma Distribution Test			Data Distribution	740 gant 111 , 127 , Park de la lacte de la Lacte
	k star (bias	corrected)	0.326	Data appear Lognormal at 5% Significance Level	· · · · · · · · · · · · · · · · · · ·
		Theta Star	2.453		
		nu star	54.08		
	Approximate Chi Square \	/alue (.05)	38.19	Nonparametric Statistics	
	Adjusted Level of Si		0.0471	95% CLT UCL	1.15
	Adjusted Chi Squ		37.95	95% Jackknife UCL	1.154
	Adjusted Off Oqu	auto value	37.33	95% Standard Bootstrap UCL	1.149
	Anderson-Darling Te	ct Statistia	3.83	95% Bootstrap-t UCL	1.4
			0.859	95% Hall's Bootstrap UCL	2.632
_,	Anderson-Darling 5% Cri		0.839	95% Percentile Bootstrap UCL	1.187
	Kolmogorov-Smirnov Te				
	Kolmogorov-Smirnov 5% Cri		0.106	95% BCA Bootstrap UCL	1.304
Data	not Gamma Distributed at 5% Sigr	nificance Le	vel	95% Chebyshev(Mean, Sd) UCL	1.729
				97.5% Chebyshev(Mean, Sd) UCL	2.131
Marka Karafah diga karapangan padam maranda sa da sa	Assuming Gamma Distributi			99% Chebyshev(Mean, Sd) UCL	2.921
***************************************	95% Approximate Ga		1.132		
	95% Adjusted Ga	mma UCL	1.139		
**************************************	Potential UCL to Use			Use 95% H-UCL	2.656
esult or 1/2	2 SDL (fluorene)		***************************************		
a.,enfo	Number of Valid	d Samples	General S	Statistics Number of Unique Samples	76
	Daw Order	1		Los Arraches de Charles de	
	Raw Statistics	Minimum	0.0043	Log-transformed Statistics  Minimum of Log Data	-5.449
		wiitiiiiiiiiiiii	0.0043	- 1	
		Maxim	4 4 4 4	Maximum of Law Data	O 104
		Maximum	1.11	Maximum of Log Data	
		Maximum Mean Median	1.11 0.0515 0.0050	Maximum of Log Data  Mean of log Data  SD of log Data	0.104 -4.291 1.395

Coefficient of Variation	2.942	arte var di ini tili di sisani di ili di ini di sisani di ili di ini di	
Skewness	5.801		
	7-111	N. Cardinalia	***************************************
Normal Distribution Test	Relevant U	CL Statistics Lognormal Distribution Test	parameter no
Lilliefors Test Statistic	0.378	Lilliefors Test Statistic	0.31
Lilliefors Critical Value	0.0973		0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0792	95% H-UCL	0.05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.06
95% Adjusted-CLT UCL	0.0902		0.08
95% Modified-t UCL	0.0809		0.10
Gamma Distribution Test		Data Distribution	······································
k star (bias corrected)	0.473	Data do not follow a Discernable Distribution (0.0)	5)
Theta Star	0.109		-
nu star	78.47		
Approximate Chi Square Value (.05)	59.06	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.07
Adjusted Chi Square Value	58.76	95% Jackknife UCL	0.07
		95% Standard Bootstrap UCL	0.07
Anderson-Darling Test Statistic	9.551	95% Bootstrap-t UCL	0.13
Anderson-Darling 5% Critical Value	0.823	95% Hall's Bootstrap UCL	0.20
Kolmogorov-Smirnov Test Statistic	0.023	95% Percentile Bootstrap UCL	0.08
Kolmogorov-Smirnov 7 est Statistic	0.297	95% BCA Bootstrap UCL	0.09
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.12
Data not dannia Distributed at 5% diginicance Le	3401	97.5% Chebyshev(Mean, Sd) UCL	0.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.10
95% Approximate Gamma UCL	0.0684		U.Z
95% Adjusted Gamma UCL	0.0688		·····
95% Adjusted Gamma UCL	0.0088		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.15
			-
sult or 1/2 SDL (gamma-chlordane)			
	General		
· Number of Valid Samples	83	Number of Unique Samples	57
Raw Statistics		Log-transformed Statistics	
Minimum	1.1000E-4	Minimum of Log Data	-9.11
Maximum	0.0156	Maximum of Log Data	-4.16
Mean	8.2679E-4	Mean of log Data	-8.449
Median	1.2500E-4	SD of log Data	1.20
SD	0.0024		·v=
Coefficient of Variation	2.992		
Skewness	4.837		
F	Relevant UC	CL Statistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	***************************************

Lilliefors Test Statistic	0.411	Lilliefors Test Statistic	0.4
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	ac 42-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0012	95% H-UCL	6.1126E-
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	7,5378E-
95% Adjusted-CLT UCL	0.0014	97.5% Chebyshev (MVUE) UCL	8.9135E-
95% Modified-t UCL	0.0013	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.465	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0017		
nu star	77.18		
Approximate Chi Square Value (.05)	57.94	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.00
Adjusted Chi Square Value	57.65	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	19.32	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.825	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.428	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.104	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.002
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
95% Approximate Gamma UCL	0.0011		
95% Adjusted Gamma UCL	0.0011		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.002
esult or 1/2 SDL (indeno(1,2,3-cd)pyrene)			
	General Sta	tistics	
Number of Valid Samples	83	Number of Unique Samples	78
Raw Statistics	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Log-transformed Statistics	
Minimum	0.0071	Minimum of Log Data	-4.948
Maximum	6.49	Maximum of Log Data	1.87
Mean	0.47	Mean of log Data	-2.172
Median	0.11	SD of log Data	1.82
SD	0.94		
Coefficient of Variation	2		
Skewness	3.998		
Normal Distribution Test	Relevant UCL S	Statistics  Lognormal Distribution Test	······································
Lilliefors Test Statistic	0.319	Lilliefors Test Statistic	0.156
**************************************		Lilliefors Critical Value	0.150
Lilliefors Critical Value  Data not Normal at 5% Significance Level	0.0973	Data not Lognormal at 5% Significance Level	0.09
Assuming Normal Distribution		Assuming Lognormal Distribution	

	を は は		
95% Student's-t UC	L 0.642	95% H-UCL	1.122
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.30
95% Adjusted-CLT UC	L 0.688	97.5% Chebyshev (MVUE) UCL	1.62
95% Modified-t UC	L 0.649	99% Chebyshev (MVUE) UCL	2.25
Gamma Distribution Test	***************************************	Data Distribution	nga na proposano de la como como de la como
k star (bias corrected	i) 0.446	Data do not follow a Discernable Distribution (0.0	15)
Theta Sta	ar 1.053		
nu sta	74.09		
Approximate Chi Square Value (.05	5) 55.27	Nonparametric Statistics	
Adjusted Level of Significanc	e 0.0471	95% CLT UCL	0.64
Adjusted Chi Square Valu	e 54.98	95% Jackknife UCL	0.642
		95% Standard Bootstrap UCL	0.63
Anderson-Darling Test Statisti	c 3.485	95% Bootstrap-t UCL	0.72
Anderson-Darling 5% Critical Valu	e 0.829	95% Hall's Bootstrap UCL	0.81
Kolmogorov-Smirnov Test Statisti	c 0.196	95% Percentile Bootstrap UCL	0.65
Kolmogorov-Smirnov 5% Critical Valu	e 0.104	95% BCA Bootstrap UCL	0.69
Data not Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.92
the first of the state of the s		97.5% Chebyshev(Mean, Sd) UCL	1.11
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.49
95% Approximate Gamma UC	L 0.63		
95% Adjusted Gamma UC	•		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	1.11
or 1/2 SDL (iron)			
		Statistics	
or 1/2 SDL (iron)  .  Number of Valid Sample		Statistics  Number of Unique Samples	73
		Y	73
Number of Valid Sample	s 83	Number of Unique Samples	
Number of Valid Sample Raw Statistics	s 83 n 3450	Number of Unique Samples  Log-transformed Statistics	8.14
Number of Valid Sample Raw Statistics Minimum	s 83 n 3450 n 77100	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	8.140 11.25
Number of Valid Sample Raw Statistics Minimun Maximun	s 83 n 3450 n 77100 n 16285	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	8.14 11.25 9.54
Number of Valid Sample:  Raw Statistics  Minimur  Maximun  Meal	s 83 n 3450 n 77100 n 16285 n 13400	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	8.14 11.25 9.54
Number of Valid Sample Raw Statistics Minimum Maximum Meai	s 83 n 3450 n 77100 n 16285 n 13400 D 11193	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	8.140 11.25
Number of Valid Sample:  Raw Statistics  Minimum  Maximum  Meal  Media	s 83 n 3450 n 77100 n 16285 n 13400 D 11193 n 0.687	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	8.14 11.25 9.54
Number of Valid Sample:  Raw Statistics  Minimum  Maximum  Meal  Media  St  Coefficient of Variation	s 83 n 3450 n 77100 n 16285 n 13400 D 11193 n 0.687	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	8.14( 11.25 9.54(
Number of Valid Sample:  Raw Statistics  Minimum  Maximum  Meal  Media  St  Coefficient of Variation	s 83 n 3450 n 77100 n 16285 n 13400 D 11193 n 0.687 s 3.11	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	8.146 11.25 9.548
Number of Valid Sample:  Raw Statistics  Minimum  Maximum  Media  Media  St  Coefficient of Variation  Skewness	s 83 n 3450 n 77100 n 16285 n 13400 0 11193 n 0.687 s 3.11	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	8.144 11.25 9.544 0.52
Number of Valid Sample:  Raw Statistics  Minimum  Maximum  Media  St  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic	8 83 n 3450 n 77100 n 16285 n 13400 D 11193 n 0.687 s 3.11 Relevant UC	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	8.144 11.25 9.544 0.52
Number of Valid Sample:  Raw Statistics  Minimum  Maximum  Median  Median  Statistics  Coefficient of Variation  Skewness  Normal Distribution Test	8 83 n 3450 n 77100 n 16285 n 13400 D 11193 n 0.687 s 3.11 Relevant UC	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test	8.14 11.25 9.54 0.52 0.095 0.095
Raw Statistics  Raw Statistics  Minimum  Maximum  Median  Statistics  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level	8 83 n 3450 n 77100 n 16285 n 13400 D 11193 n 0.687 s 3.11 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data appear Lognormal at 5% Significance Leve	8.14 11.25 9.54 0.52 0.095 0.095
Number of Valid Sample:  Raw Statistics  Minimum  Maximum  Medial  SC  Coefficient of Variation  Skewnes:  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	8 83  n 3450 n 77100 n 16285 n 13400 0 11193 n 0.687 s 3.11  Relevant U0 0 0.205 e 0.0973	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data appear Lognormal at 5% Significance Leve	8.144 11.25 9.544 0.52 0.095 0.097
Number of Valid Sample:  Raw Statistics  Minimum  Maximum  Media  St  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCI	8 83  n 3450 n 77100 n 16285 n 13400 0 11193 n 0.687 s 3.11  Relevant U0 0 0.205 e 0.0973	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lilliefors Test Statistic  Lilliefors Critical Value  Data appear Lognormal at 5% Significance Leve  Assuming Lognormal Distribution  95% H-UCL	8.146 11.25 9.548 0.52 0.095 0.095
Number of Valid Sample:  Raw Statistics  Minimum  Maximum  Medial  SC  Coefficient of Variation  Skewnes:  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	8 83  n 3450 n 77100 n 16285 n 13400 0 11193 n 0.687 s 3.11  Relevant U0 0 0.205 e 0.0973	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lilliefors Test Statistic  Lilliefors Critical Value  Data appear Lognormal at 5% Significance Leve  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	8.146 11.25 9.548 0.52 0.095 0.097

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.376	Data appear Lognormal at 5% Significance Leve	əl
Theta Star	4824		
nu star	560.3		
Approximate Chi Square Value (.05)	506.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	18306
Adjusted Chi Square Value	505.5	95% Jackknife UCL	18329
		95% Standard Bootstrap UCL	18299
Anderson-Darling Test Statistic	2.12	95% Bootstrap-t UCL	18935
Anderson-Darling 5% Critical Value	0.758	95% Hall's Bootstrap UCL	19503
Kolmogorov-Smirnov Test Statistic	0.137	95% Percentile Bootstrap UCL	18453
Kolmogorov-Smirnov 5% Critical Value	0.0987	95% BCA Bootstrap UCL	18869
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	21640
		97.5% Chebyshev(Mean, Sd) UCL	23957
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	28509
95% Approximate Gamma UCL	18019	99 % Chebyshev (Mean, 30) OCL	20003
95% Adjusted Gamma UCL	18051		
			······································
Potential UCL to Use		Use 95% H-UCL	17845
ult or 1/2 SDL (lead)			
	General		
Number of Valid Samples	83	Number of Unique Samples	80
Raw Statistics	afronson ordinaliting Marina Harri	Log-transformed Statistics	***************************************
Minimum	2.82	Minimum of Log Data	1.03
Maximum	643	Maximum of Log Data	6.46
Mean	69.61	Mean of log Data	3.58
Median	34.4	SD of log Data	1.07
SD	112.8		
Coefficient of Variation	1.62		
Skewness	3.653		
F	Relevant UC	CL Statistics	W. 2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.277	Lilliefors Test Statistic	0.07
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	d
Assuming Normal Distribution	1.000,000,000,000,000,000,000,000,000,00	Assuming Lognormal Distribution	note the transfer of the throughout
95% Student's-t UCL	90.2	95% H-UCL	84.5
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	103.5
95% Adjusted-CLT UCL	95.27	97.5% Chebyshev (MVUE) UCL	120.8
0.000	91.03	99% Chebyshev (MVUE) UCL	154.8
95% Modified-t UCL			
Gamma Distribution Test		Data Distribution	
Gamma Distribution Test	0.864		<u>.</u>
Gamma Distribution Test k star (bias corrected)		Data Distribution  Data appear Lognormal at 5% Significance Leve	1
Gamma Distribution Test	0.864 80.56 143.4		ıl

Adjusted Level of Significance	0.0471	95% CLT UCL	89.97
Adjusted Chi Square Value	116.3	95% Jackknife UCL	90.2
		95% Standard Bootstrap UCL	89.75
Anderson-Darling Test Statistic	3.258	95% Bootstrap-t UCL	100.5
Anderson-Darling 5% Critical Value	0.787	95% Hall's Bootstrap UCL	94.9
Kolmogorov-Smirnov Test Statistic	0.139	95% Percentile Bootstrap UCL	91.31
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	95.36
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	123.6
		97.5% Chebyshev(Mean, Sd) UCL	146.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	192.8
95% Approximate Gamma UCL	85.51		THE THE PARTY OF THE
95% Adjusted Gamma UCL	85.82		
			***************************************
Potential UCL to Use		Use 95% H-UCL	84.5
ult or 1/2 SDL (lithium)			
	General S	Statistics	ind later to start of 12 to the party relief to
Number of Valid Samples	83	Number of Unique Samples	80
Raw Statistics		Log-transformed Statistics	
Minimum	0.65	Minimum of Log Data	-0.431
Maximum	28	Maximum of Log Data	3.33
Mean	7.856	Mean of log Data	1.76
Median	6.44	SD of log Data	0.84
SD	5.715		prijer ger weite in de bester territori
Coefficient of Variation	0.728		
Skewness	1.032		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.148	Lilliefors Test Statistic	0.07
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	8.899	95% H-UCL	10.12
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	12.11
95% Adjusted-CLT UCL	8.963	97.5% Chebyshev (MVUE) UCL	13.77
95% Modified-t UCL	8.911	99% Chebyshev (MVUE) UCL	17.03
53% Modified-t OCL	0.311	33% Chebyshev (WVOL) OCL	
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.749	Data appear Gamma Distributed at 5% Significance L	_evei
Theta Star	4.492		
nu star	290.3		******************
Approximate Chi Square Value (.05)	251.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	8.88
Adjusted Chi Square Value	251.2	95% Jackknife UCL	8.89
		95% Standard Bootstrap UCL	8.8
Anderson-Darling Test Statistic	0.362	95% Bootstrap-t UCL	9.04
Anderson-Darling 5% Critical Value	0.766	95% Hall's Bootstrap UCL	9.04

Kolmogorov-Smirnov Test Statistic	0.0621	95% Percentile Bootstrap UCL	8.862
Kolmogorov-Smirnov 5% Critical Value	0.0996	95% BCA Bootstrap UCL	9.001
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	10.59
		97.5% Chebyshev(Mean, Sd) UCL	11.77
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	14.1
95% Approximate Gamma UCL	9.055		etrocomotologo kolpdo cetopoloto poco
95% Adjusted Gamma UCL	9.078		art og a gant letter tarter av skap av stage a
Potential UCL to Use		Use 95% Approximate Gamma UCL	9.055
ult or 1/2 SDL (manganese)			
	General S	tatistics	
Number of Valid Samples	83	Number of Unique Samples	71
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	59.3	Minimum of Log Data	4.083
Maximum	892	Maximum of Log Data	6.793
Mean	257.4	Mean of log Data	5.455
Median	224	SD of log Data	0.426
SD	129.3		
Coefficient of Variation	0.502		
Skewness	2.305		gar-ge-mmynggmanna
Normal Distribution Test  Lilliefors Test Statistic	Relevant UCI 0.196	L Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	0.102
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	281.1	95% H-UCL	278.9
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	310.2
95% Adjusted-CLT UCL	284.6	97.5% Chebyshev (MVUE) UCL	333.7
95% Modified-t UCL	281.7	99% Chebyshev (MVUE) UCL	379.8
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.208	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	49.43		
nu star	004.0		
ing start	864.6		
Approximate Chi Square Value (.05)	797.4	Nonparametric Statistics	
		Nonparametric Statistics 95% CLT UCL	280.8
Approximate Chi Square Value (.05)	797.4		280.8 281.1
Approximate Chi Square Value (.05) Adjusted Level of Significance	797.4 0.0471	95% CLT UCL	Market Mr. Press Mare - population
Approximate Chi Square Value (.05) Adjusted Level of Significance	797.4 0.0471	95% CLT UCL 95% Jackknife UCL	281.1
Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value	797.4 0.0471 796.2	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	281.1 280.6
Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  Anderson-Darling Test Statistic	797.4 0.0471 796.2 1.874	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	281.1 280.6 288.2
Approximate Chi Square Value (.05)  Adjusted Level of Significance Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value	797.4 0.0471 796.2 1.874 0.754	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	281.1 280.6 288.2 288.5
Approximate Chi Square Value (.05)  Adjusted Level of Significance Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic	797.4 0.0471 796.2 1.874 0.754 0.132 0.0983	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	281.1 280.6 288.2 288.5 282.3
Approximate Chi Square Value (.05)  Adjusted Level of Significance Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value	797.4 0.0471 796.2 1.874 0.754 0.132 0.0983	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	281.1 280.6 288.2 288.5 282.3 286.3

95% Approximate Gamma UCL	279.1	·	and a second contract of the second of the s
95% Adjusted Gamma UCL	279.5		
Potential UCL to Use		Use 95% Student's-t UCL	281.1
		or 95% Modified-t UCL	281.7
ult or 1/2 SDL (mercury)			
Number of Valid Samples	General 9	Statistics  Number of Unique Samples	55
	I		
Raw Statistics	***************************************	Log-transformed Statistics	en francisco es de rétion e
Minimum	0.001	Minimum of Log Data	-6.90
Maximum	0.66	Maximum of Log Data	-0.41
Mean	0.0227	Mean of log Data	-4.95
Median	0.0065	SD of log Data	1.3
SD	0.0752		######################################
Coefficient of Variation	3.315		***************************************
Skewness	7.742		
	Relevant LIC	DL Statistics	www.vanan
Normal Distribution Test	TOO TOO	Lognormal Distribution Test	
Lilliefors Test Statistic	0.387	Lilliefors Test Statistic	0.0
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	<u> </u>
Assuming Normal Distribution	· · · · · · · · · · · · · · · · · · ·	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0364	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0437	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0376	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.528	Data appear Lognormal at 5% Significance Leve	
Theta Star	0.0429		
nu star	87.68		
Approximate Chi Square Value (.05)	67.1	Nonparametric Statistics	
Adjusted Chi Square Volus	0.0471	95% CLT UCL	0.0
Adjusted Chi Square Value	66.78	95% Jackknife UCL	0.0
Anderson-Darling Test Statistic	5.016	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.0
Anderson-Darling 1est Statistic  Anderson-Darling 5% Critical Value	0.815	95% Bootstrap-t OCL	0.0
Kolmogorov-Smirnov Test Statistic	0.208	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.103	95% BCA Bootstrap UCL	0.04
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.10
95% Approximate Gamma UCL	0.0296		
95% Adjusted Gamma UCL	0.0298		e
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Potential UCL to Use		Use 95% H-UCL	0.02

sult or 1/2 SDL (molybdenum)			
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	67
Raw Statistics	-	Log-transformed Statistics	***************************************
Minimum	0.034	Minimum of Log Data	-3.381
Maximum	8.42	Maximum of Log Data	2.13
Mean	1.306	Mean of log Data	-0.575
Median	0.91	SD of log Data	1.52
SD	1.588	OD OI TO DELLO	1.02
Coefficient of Variation	1.216		
Skewness	2.126		
		J	
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.23	Lilliefors Test Statistic	0.13
Lilliefors Critical Value  Data not Normal at 5% Significance Level	0.0973	Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	0.09
Data not Notifial at 3 % Significance Level		Data not cognomial at 3% significance rever	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.596	95% H-UCL	2.85
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	3.49
95% Adjusted-CLT UCL	1.637	97.5% Chebyshev (MVUE) UCL	4.25
95% Modified-t UCL	1.603	99% Chebyshev (MVUE) UCL	5.73
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.698	Data appear Gamma Distributed at 5% Significance L	_evel
Theta Star	1.872		
nu star	115.8		
Approximate Chi Square Value (.05)	91.98	Nonparametric Statistics	4 =0
Adjusted Level of Significance	0.0471	95% CLT UCL	1.59
Adjusted Chi Square Value	91.61	95% Jackknife UCL	1.59
	0.05	95% Standard Bootstrap UCL	1.58
Anderson-Darling Test Statistic	0.65	95% Bootstrap-t UCL	1.66
Anderson-Darling 5% Critical Value	0.797	95% Hall's Bootstrap UCL	1.63
Kolmogorov-Smirnov Test Statistic	0.0752	95% Percentile Bootstrap UCL	1.59
Kolmogorov-Smirnov 5% Critical Value	0.102	95% BCA Bootstrap UCL	1.64
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	2.06
Assurable October 51 1 1 1 1 1		97.5% Chebyshev(Mean, Sd) UCL	2.39
Assuming Gamma Distribution	1.045	99% Chebyshev(Mean, Sd) UCL	3.04
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	1.645 1.652		
co.a. ajados damina oc			
		Use 95% Approximate Gamma UCL	1.64

General Statistics

Number of Valid Samples	83	Number of Unique Samples	67
Raw Statistics	\	Log-transformed Statistics	
Minimum	2.84	Minimum of Log Data	1.044
Maximum	36.7	Maximum of Log Data	3.603
Mean	11.64	Mean of log Data	2.373
Median	11.2	SD of log Data	0.411
SD	4.938		
Coefficient of Variation	0.424		
Skewness	1.825		
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.13	Lilliefors Test Statistic	0.087
Lilliefors Critical Value	0.0973		0.097
Data not Normal at 5% Significance Level	0.0070	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	12.54	95% H-UCL	12.67
95% UCLs (Adjusted for Skewness)	\$	95% Chebyshev (MVUE) UCL	14.05
95% Adjusted-CLT UCL	12.65	97.5% Chebyshev (MVUE) UCL	15.08
95% Modified-t UCL	12.56	99% Chebyshev (MVUE) UCL	17.1
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	6.095	Data appear Gamma Distributed at 5% Significance I	evel
Theta Star	1.91		
nu star			
Approximate Chi Square Value (.05)	938.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0471		12.53
Adjusted Chi Square Value	937.7	95% Jackknife UCL	12.54
Adjusted of Oquale Value	007.7	95% Standard Bootstrap UCL	12.55
Anderson-Darling Test Statistic	0.505	95% Bootstrap-t UCL	12.68
	0.754	95% Hall's Bootstrap UCL	12.78
Anderson-Darling 5% Critical Value			
Kolmogorov-Smirnov Test Statistic	0.0926	• 1	12.53
Kolmogorov-Smirnov 5% Critical Value	0.0982	· I	12.6
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	14
		97.5% Chebyshev(Mean, Sd) UCL	15.02
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	17.03
95% Approximate Gamma UCL	12.54		
95% Adjusted Gamma UCL	12.56		
Potential UCL to Use		Use 95% Approximate Gamma UCL	12.54
esult or 1/2 SDL (phenanthrene)			
	General		
Number of Valid Samples	83	Number of Unique Samples	74
Raw Statistics		Log-transformed Statistics	
Minimum	0.0057	Minimum of Log Data	-5.159
Maximum	12.6	Maximum of Log Data	2.534

en ja karan digasa paggapatan kalan batan batan baran bar	rang in wasawa 📧	specifical Made to the control of th	n ngalungsaka
Mean	0.512	Mean of log Data	-2.572
Median	0.063	SD of log Data	2.001
Wedan	1.543	SD of log Data	2.001
Coefficient of Variation	3,013		
Skewness	6.446		
Skewiless	0.440	·	
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.371	Lilliefors Test Statistic	0.132
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.794	95% H-UCL	1.186
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.312
95% Adjusted-CLT UCL	0.919	97.5% Chebyshev (MVUE) UCL	1.651
95% Modified-t UCL	0.814	99% Chebyshev (MVUE) UCL	2.317
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.348	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	1.472		
nu star	57.78		
Approximate Chi Square Value (.05)	41.31	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.791
Adjusted Chi Square Value	41.06	95% Jackknife UCL	0.794
		95% Standard Bootstrap UCL	0.795
Anderson-Darling Test Statistic	4.225	95% Bootstrap-t UCL	1.251
Anderson-Darling 5% Critical Value	0.853	95% Hall's Bootstrap UCL	1.967
Kolmogorov-Smirnov Test Statistic	0.182	95% Percentile Bootstrap UCL	0.802
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.965
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	1.251
		97.5% Chebyshev(Mean, Sd) UCL	1.57
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.198
95% Approximate Gamma UCL	0.717		A. 105. 147 1277 14 41 414 111 11 11 11 11 11 11 11 11 1
95% Adjusted Gamma UCL	0.721		and the second s
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	2,198
1 Olembar CCL to GSE		Ose 33 % Chebyshev (Weath, 34) Co.L	2,130
Result or 1/2 SDL (pyrene)			
Court of the Court	r ghoga e e man ka ( mpara da nga ana an an pun pangana, r d		
	General S		70
Number of Valid Samples	83	Number of Unique Samples	76
Raw Statistics	***************************************	Log-transformed Statistics	
Minimum	0.0055	Minimum of Log Data	-5.194
Maximum	8.47	Maximum of Log Data	2.137
Mean	0.533	Mean of log Data	-2.413
Median	0.075	SD of log Data	1.994
SD	1.209		
Coefficient of Variation	2.27		
Skewness	4.319		

	Relevant UCL S	Statistics	
Normal Distribution Test	TOOL O	Lognormal Distribution Test	····
Lilliefors Test Statistic	0.333	Lilliefors Test Statistic	0.08
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.754	95% H-UCL	1.36
95% UCLs (Adjusted for Skewness)	0.701	95% Chebyshev (MVUE) UCL	1.51
95% Adjusted-CLT UCL	0.818	97.5% Chebyshev (MVUE) UCL	1.90
95% Modified-t UCL	0.764	99% Chebyshev (MVUE) UCL	2.67
		000000000000000000000000000000000000000	
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.368	Data appear Lognormal at 5% Significance Level	
Theta Star	1.449		
nu star	61.04		
Approximate Chi Square Value (.05)	44.07	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.75
Adjusted Chi Square Value	43.82	95% Jackknife UCL	0.75
		95% Standard Bootstrap UCL	0.75
Anderson-Darling Test Statistic	3.7	95% Bootstrap-t UCL	0.87
Anderson-Darling 5% Critical Value	0.849	95% Hall's Bootstrap UCL	1.42
Kolmogorov-Smirnov Test Statistic	0.175	95% Percentile Bootstrap UCL	0.76
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	0.82
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	1.11
		97.5% Chebyshev(Mean, Sd) UCL	1.36
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.85
95% Approximate Gamma UCL	0.738		
95% Adjusted Gamma UCL	0.742		. P
Potential UCL to Use		Use 95% H-UCL	1.36
sult or 1/2 SDL (selenium)			
	General Stati	stics	
Number of Valid Samples	83	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	//
Minimum	0.21	Minimum of Log Data	-1.561
Maximum	0.48	Maximum of Log Data	-0.734
Mean	0.258	Mean of log Data	-1.377
Median	0.24	SD of log Data	0.20
SD	0.0663		
Coefficient of Variation	0.257		
Skewness	2.645		
F	Relevant UCL S	tatistics	, po 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.363	Lilliefors Test Statistic	0.32
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09

		on the state of th	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.27	95% H-UCL	0.267
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.282
95% Adjusted-CLT UCL	0.272	97.5% Chebyshev (MVUE) UCL	0.293
95% Modified-t UCL	0.272	99% Chebyshev (MVUE) UCL	0.31
3070 Woulden-1 33L	0.271	3370 Chebyshov (MVGE) GGE	0.01
Gamma Distribution Test		Data Distribution	*******************************
k star (bias corrected)	20.56	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0126		
nu star	3413		
Approximate Chi Square Value (.05)	3278	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.27
Adjusted Chi Square Value	3276	95% Jackknife UCL	0.27
## - 1.00 p		95% Standard Bootstrap UCL	0.27
Anderson-Darling Test Statistic	13.15	95% Bootstrap-t UCL	0.27
Anderson-Darling 5% Critical Value	0.75	95% Hall's Bootstrap UCL	0.27
Kolmogorov-Smirnov Test Statistic	0.338	95% Percentile Bootstrap UCL	0.27
Kolmogorov-Smirnov 5% Critical Value	0.0978	95% BCA Bootstrap UCL	0.27
Data not Gamma Distributed at 5% Significance L		95% Chebyshev(Mean, Sd) UCL	0.29
	~··	97.5% Chebyshev(Mean, Sd) UCL	0.304
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.33
95% Approximate Gamma UCL	0.269	33 % Chebyshev (Wealt, 3u) OCL	0.55
95% Adjusted Gamma UCL	0.269		VIII. 140.0 - 110.
Potential UCL to Use		Use 95% Student's-t UCL	0.27
		or 95% Modified-t UCL	0.27
esult or 1/2 SDL (silver)			
	General Sta	atictics	
Number of Valid Samples	General Sta	atistics  Number of Unique Samples	24
		Number of Unique Samples	24
Raw Statistics	83	Number of Unique Samples  Log-transformed Statistics	
Raw Statistics Minimum	0.0235	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-3.751
Raw Statistics Minimum Maximum	0.0235	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-3.751 -0.0101
Raw Statistics Minimum Maximum Mean	0.0235 0.99 0.0573	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-3.751 -0.0101 -3.388
Raw Statistics Minimum Maximum Mean Median	0.0235 0.99 0.0573 0.0265	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-3.751 -0.0101 -3.388
Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0235 0.99 0.0573 0.0265 0.125	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-3.751 -0.0101 -3.388
Raw Statistics Minimum Maximum Mean Median	0.0235 0.99 0.0573 0.0265	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-3.751 -0.0101 -3.388
Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0235 0.99 0.0573 0.0265 0.125	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-3.751 -0.010 <sup>-1</sup>
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0235 0.99 0.0573 0.0265 0.125 2.178	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-3.751 -0.0101 -3.388
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0235 0.99 0.0573 0.0265 0.125 2.178 5.862	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-3.751 -0.0101 -3.388
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0235 0.99 0.0573 0.0265 0.125 2.178 5.862	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-3.751 -0.010 -3.388 0.71
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test	0.0235 0.99 0.0573 0.0265 0.125 2.178 5.862	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-3.751 -0.010 -3.388 0.71
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic	0.0235 0.99 0.0573 0.0265 0.125 2.178 5.862	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value	0.0235 0.99 0.0573 0.0265 0.125 2.178 5.862	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value	-3.751 -0.010 -3.388 0.71

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.05
95% Adjusted-CLT UCL	0.0892	97.5% Chebyshev (MVUE) UCL	0.06
95% Modified-t UCL	0.0815	99% Chebyshev (MVUE) UCL	0.08
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	1.053	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0544		
nu star	174.9		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Approximate Chi Square Value (.05)	145.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0
Adjusted Chi Square Value	144.8	95% Jackknife UCL	0.0
the distribution of the second desired the second s		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	21.47	95% Bootstrap-t UCL	0.1
Anderson-Darling 5% Critical Value	0.78	95% Hall's Bootstrap UCL	0.1
Kolmogorov-Smirnov Test Statistic	0.444	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.1
		97.5% Chebyshev(Mean, Sd) UCL	0.1
Assuming Gamma Distribution	I	99% Chebyshev(Mean, Sd) UCL	0.1
95% Approximate Gamma UCL	0.0689		
95% Adjusted Gamma UCL	0.0691		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.1
lt or 1/2 SDL (strontium)	General S	statistics	
It or 1/2 SDL (strontium)  Number of Valid Samples	General S	Statistics  Number of Unique Samples	76
			76
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	83	Number of Unique Samples  Log-transformed Statistics	2.8
Number of Valid Samples  Raw Statistics  Minimum	83 16.5	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	2.8 6.2
Number of Valid Samples  Raw Statistics  Minimum  Maximum	16.5 527	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	2.8 6.2 4.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	16.5 527 70.61	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	2.8 6.2 4.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	16.5 527 70.61 57.3	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	2.8 6.2 4.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	16.5 527 70.61 57.3 63.98	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	2.8 6.2 4.0
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	16.5 527 70.61 57.3 63.98 0.906	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	2.8 6.2 4.0
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	16.5 527 70.61 57.3 63.98 0.906 5.044	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	2.8 6.2 4.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	16.5 527 70.61 57.3 63.98 0.906 5.044	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	2.8 6.2 4.0 0.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test	16.5 527 70.61 57.3 63.98 0.906 5.044	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test	2.8 6.2 4.0 0.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic	16.5 527 70.61 57.3 63.98 0.906 5.044	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	2.8 6.2 4.0 0.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level	16.5 527 70.61 57.3 63.98 0.906 5.044	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	2.8 6.2 4.0 0.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	16.5 527 70.61 57.3 63.98 0.906 5.044 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	2.8 6.2 4.0 0.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	16.5 527 70.61 57.3 63.98 0.906 5.044	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	2.8 6.2 4.0 0.5 0.1 0.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	16.5 527 70.61 57.3 63.98 0.906 5.044  Relevant UCI 0.241 0.0973	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	2.8 6.2 4.0 0.5 0.1 0.1 0.0 77.6
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	16.5 527 70.61 57.3 63.98 0.906 5.044 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	2.8 6.2 4.0 0.5 0.1 0.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	16.5 527 70.61 57.3 63.98 0.906 5.044  Relevant UC 0.241 0.0973	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	2. 6. 4. 0. 0. 0. 77. 89. 97.

10.20.20.20.20.20.70.74		or carlo
2 606	Data do not follow a Discernable Distribution (0.0	5)
	Data do not follow a Discernable Distribution (0.0	
	Nonparametric Statistics	
. [		82.16
<u> </u>		82.29
001.0		81.58
2 313		91.45
	,	135.7
]		82.83
	- 1	86.92
	`	101.2
	1	114.5
1		140.5
79.26		
1		ninangiaarrimmeninin
/ 3.72		
***************************************	Use 95% Chebyshev (Mean, Sd) UCL	101.2
General S	Statistics	
		35
	Number of Single Campion	
	Log-transformed Statistics	
0.23	_	-1.47
4.95		1.599
0.611	Mean of log Data	-0.898
0.265	SD of log Data	0.768
0.793		
1.296		
3.22		
Relevant UC		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		1441- <b>5</b> 446614444 <b>44</b> 5454444 <b>4</b>
<u> </u>	I	0.334
0.0973		0.097
	Data not Lognormal at 5% Significance Level	
	Assuming Lognormal Distribution	
0.756	95% H-UCL	0.65
***************************************	95% Chebyshev (MVUE) UCL	0.769
0.787	97.5% Chebyshev (MVUE) UCL	0.866
0.761	99% Chebyshev (MVUE) UCL	1.057
	Data Distribution	
1.334	Data do not follow a Discernable Distribution (0.0)	5)
1		
]]		
	Nonparametric Statistics	
, .55	ronparametri di	
	General S 83  0.23 4.95 0.611 0.265 0.793 1.296 3.22  Relevant UC  0.325 0.0973  0.756	27.1

Adjusted Chi Square Value	187.4	95% Jackknife UCL	0.756
		95% Standard Bootstrap UCL	0.756
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	0.816
Anderson-Darling 5% Critical Value	į	95% Hall's Bootstrap UCL	0.816
Kolmogorov-Smirnov Test Statistic	1	95% Percentile Bootstrap UCL	0.768
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	0.802
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.991
		97.5% Chebyshev(Mean, Sd) UCL	1.155
Assuming Gamma Distribution	ngto-to-to-to-to-to-to-to-to-to-to-to	99% Chebyshev(Mean, Sd) UCL	1.477
95% Approximate Gamma UCL	0.72		
95% Adjusted Gamma UCL	0.722		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.991
Result or 1/2 SDL (titanium)			
	General	Statistics	***************************************
Number of Valid Samples	83	Number of Unique Samples	71
Raw Statistics		Log-transformed Statistics	
Minimum	11.5	Minimum of Log Data	2.442
Maximum	645	Maximum of Log Data	6.469
Mean	29.8	Mean of log Data	3.055
Median	19.5	SD of log Data	0.544
SD	69.4		
Coefficient of Variation	2,329		
Skewness	8.71		
Normal Distribution Test	Relevant Ut	CL Statistics	
Lilliefors Test Statistic	0.396	Lognormal Distribution Test Lilliefors Test Statistic	0.193
Lilliefors Critical Value	0.396		0.193
Data not Normal at 5% Significance Level	0.09/3	Data not Lognormal at 5% Significance Level	0.097
Data not Normal at 3% Significance Level		Data not cognormal at 5% Significance Level	and the second
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	42.47	95% H-UCL	27.51
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	31.33
95% Adjusted-CLT UCL	50.11	97.5% Chebyshev (MVUE) UCL	34.27
95% Modified-t UCL	43.68	99% Chebyshev (MVUE) UCL	40.05
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.568	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	19.01		-
nu star	260.3		
Approximate Chi Square Value (.05)	223.9	Nonparametric Statistics	Tradition Hamburger Construction Plant
Adjusted Level of Significance	0.0471	95% CLT UCL	42.33
Adjusted Chi Square Value	223.3	95% Jackknife UCL	42.47
		95% Standard Bootstrap UCL	42.22
Anderson-Darling Test Statistic	11.79	95% Bootstrap-t UCL	96.34
Anderson-Darling 5% Critical Value	0.769	95% Hall's Bootstrap UCL	87.12
Kolmogorov-Smirnov Test Statistic	0.289	95% Percentile Bootstrap UCL	44.62

and the State Land Control of the Albandar will be control as more in the control assumption.	English Season Control for	to <del>dago in a factorio filoso propriedado in procesa com como transferencia de la comercia de como incluido com comencia de comercia de c</del>	515,45% 53
Kolmogorov-Smirnov 5% Critical Value	0.0998	95% BCA Bootstrap UCL	53.78
Data not Gamma Distributed at 5% Significance L	i i	95% Chebyshev(Mean, Sd) UCL	63
Data not Gamma Distributed at 5% Significance L	evei	97.5% Chebyshev(Mean, Sd) UCL	77.37
Acqueries Commo Distribution	ļ		
Assuming Gamma Distribution	04.04	99% Chebyshev(Mean, Sd) UCL	105.6
95% Approximate Gamma UCL	34.64		
95% Adjusted Gamma UCL	34.73		
Potential UCL to Use	-	Use 95% Chebyshev (Mean, Sd) UCL	63
esult or 1/2 SDL (vanadium)			
	General S	itatistics	Michigan Cartaba
Number of Valid Samples	83	Number of Unique Samples	67
Raw Statistics		Log-transformed Statistics	
Minimum	5.42	Minimum of Log Data	1.69
Maximum	45.6	Maximum of Log Data	3.82
Mean	13.76	Mean of log Data	2.53
Median	12.9	SD of log Data	0.40
SD	6.248		
Coefficient of Variation	0.454		
Skewness	2.186		vali antidali antida
Normal Distribution Test  Lilliefors Test Statistic	Relevant UCI	Lognormal Distribution Test Lilliefors Test Statistic	0.06
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
			**************************************
Assuming Normal Distribution	440	Assuming Lognormal Distribution	
95% Student's-t UCL	14.9		440-
95% UCLs (Adjusted for Skewness)		95% H-UCL	14.87
		95% Chebyshev (MVUE) UCL	16.46
95% Adjusted-CLT UCL	15.06	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	16.46 17.65
95% Adjusted-CLT UCL 95% Modified-t UCL	15.06 14.93	95% Chebyshev (MVUE) UCL	16.46 17.69
95% Modified-t UCL Gamma Distribution Test	14.93	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	16.46 17.65 19.98
95% Modified-t UCL		95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	16.40 17.69 19.98
95% Modified-t UCL Gamma Distribution Test	14.93	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	16.40 17.69 19.98
95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star	14.93 5.932	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	16.40 17.69 19.98
95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)	5.932 2.319	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	16.4 17.6 19.9
95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star	5.932 2.319 984.6	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Gamma Distributed at 5% Significance L	16.4 17.6 19.9 evel
95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)	5.932 2.319 984.6 912.8	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L Nonparametric Statistics	16.4 17.6 19.9 evel
95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance	5.932 2.319 984.6 912.8 0.0471	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L  Nonparametric Statistics 95% CLT UCL	16.4 17.6 19.9 evel
95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance	5.932 2.319 984.6 912.8 0.0471	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Gamma Distributed at 5% Significance L  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	16.44 17.69 19.98 evel 14.89 14.89
95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value	5.932 2.319 984.6 912.8 0.0471 911.6	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution  Data appear Gamma Distributed at 5% Significance L  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	16.4 17.6 19.9 evel 14.8 14.9 14.8
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	5.932 2.319 984.6 912.8 0.0471 911.6	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Gamma Distributed at 5% Significance L  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	16.44 17.6 19.9 evel 14.89 14.9 14.89 15.19
95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value	5.932 2.319 984.6 912.8 0.0471 911.6 0.532 0.754	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Gamma Distributed at 5% Significance L  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	16.44 17.69 19.98 .evel 14.89 14.9 15.18 15.36 14.94
Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic	5.932 2.319 984.6 912.8 0.0471 911.6 0.532 0.754 0.0752 0.0982	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Gamma Distributed at 5% Significance L  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	16.46 17.65 19.98 evel
Gamma Distribution Test  k star (bias corrected)  Theta Star nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value	5.932 2.319 984.6 912.8 0.0471 911.6 0.532 0.754 0.0752 0.0982	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Gamma Distributed at 5% Significance L  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	16.46 17.65 19.98 evel 14.89 14.9 15.15 15.36 14.94
Gamma Distribution Test  k star (bias corrected)  Theta Star nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value	5.932 2.319 984.6 912.8 0.0471 911.6 0.532 0.754 0.0752 0.0982	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Gamma Distributed at 5% Significance L  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	16.46 17.65 19.98 evel 14.89 14.99 15.15 15.36 14.94 15.03

95% Adjusted Gamma UCL	14.86		<u> </u>
Potential UCL to Use		Use 95% Approximate Gamma UCL	14.84
sult or 1/2 SDL (zinc)	and the state of t		
	<b>V</b>		
	General St	atistics	
Number of Valid Samples	83	Number of Unique Samples	81
Raw Statistics		Log-transformed Statistics	
Minimum	12.3	Minimum of Log Data	2.5
Maximum	4770	Maximum of Log Data	8.47
Mean	601.2	Mean of log Data	5.83
Median	455	SD of log Data	1.20
SD	672.8		
Coefficient of Variation	1.119		
Skewness	3.386		
	Relevant UCL	Chatistics	
Normal Distribution Test	Nelevalit OCL	Lognormal Distribution Test	
Lilliefors Test Statistic	0.191	Lilliefors Test Statistic	0.14
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	Hellettelere over 18 General Papel
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	724.1	95% H-UCL	976.4
95% UCLs (Adjusted for Skewness)	/27.1	95% Chebyshev (MVUE) UCL	1204
95% Adjusted-CLT UCL	752	97.5% Chebyshev (MVUE) UCL	1423
95% Modified-t UCL	728.6	99% Chebyshev (MVUE) UCL	1855
Gamma Distribution Test k star (bias corrected)	0.996	Data Distribution  Data appear Gamma Distributed at 5% Significance	Loval
Theta Star	603.9	Data appear Gamma Distributed at 5% Significance	reve
nu stari	165.3		H
Approximate Chi Square Value (.05)	136.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	722.7
Adjusted Chi Square Value	136.1	· 95% Jackknife UCL	724.1
		95% Standard Bootstrap UCL	717.7
Anderson-Darling Test Statistic	0.442	95% Bootstrap-t UCL	763
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	816,5
Kolmogorov-Smirnov Test Statistic	0.0769	95% Percentile Bootstrap UCL	727.9
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	758.6
Data appear Gamma Distributed at 5% Significance	l	95% Chebyshev(Mean, Sd) UCL	923.1
		97.5% Chebyshev(Mean, Sd) UCL	1062
Assuming Gamma Distribution	**************************************	99% Chebyshev(Mean, Sd) UCL	1336
95% Approximate Gamma UCL	727.7		
95% Adjusted Gamma UCL	730.2		
			707 -
Potential UCL to Use	i	Use 95% Approximate Gamma UCL	727.7

## APPENDIX A-2

SOUTH OF MARLIN SOIL

	General UCL Statistics	s for Full Da	ta Sets	
User Selected Options				
From File	J:\1352 - Gulfco RI\risk	\data querie	s oct 07\EPC tables with onehalf DL\95% detect frequency	soil S of m
Full Precision	OFF			and and a finite and the transmission specifies
Confidence Coefficient	95%	· mainequiteçõe · a · maarevç		and the state of t
Number of Bootstrap Operations	2000	Managana angkasaran Reportina ana anang mito yay din		
Result or 1/2 SDL (1,3,5-trimethyl	benzene)			
		General S	Statistics	
Nu	mber of Valid Samples	83	Number of Unique Samples	58 ,
Raw Si	tatistics	CONTRACTOR AND	Log-transformed Statistics	
germanyan ang nga 19 at datah at ang garang matawat Addib Madadah kanaban kanbah at an at Affection bil ta a ba	Minimum	3.7000E-5	Minimum of Log Data	-10.2
	Maximum	4.36	Maximum of Log Data	1.472
	Mean	0.099	Mean of log Data	-8.82
	Median	7.4500E-5	SD of log Data	1.986
	SD	0.632		
	Coefficient of Variation	6.391		
	Skewness	6.366		
annighted the editions and with the Alexandrian decimal to produce the best of the decimal to the second to the		Relevant UC	DL Statistics	
Normal Distr	ribution Test		Lognormal Distribution Test	*** *** *** *** *** *** *** *** *** **
andersahirinin in stemma tima tima tima tima tima tima tima t	Lilliefors Test Statistic	0.535	Lilliefors Test Statistic	0.397
heliolodd man nebrandr cyntolodd a tolonog oden eilligwydd dloneol fall docu can owen benneun ma	Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.0973
Data not Normal at 59	% Significance Level	l	Data not Lognormal at 5% Significance Level	
Assuming Norn	nal Distribution		Assuming Lognormal Distribution	
	95% Student's-t UCL	0.214	95% H-UCL	0.0022
95% UCLs (Adjus	ted for Skewness)		95% Chebyshev (MVUE) UCL	0.0024
9	5% Adjusted-CLT UCL	0.265	97.5% Chebyshev (MVUE) UCL	0.0030
	95% Modified-t UCL	0.223	99% Chebyshev (MVUE) UCL	0.0043
Gamma Dist	ribution Test		Data Distribution	rapera o podrete editori y de familio s'imbio s'imbio de redessi
antigen yn regen yn regen yn ei yn yr regen yn ei gyddyn a gan yr ar yn rhael yn rhael yn yr yn yn yr rhael yn y gan yn rhael yn rhael yn rhael yn y gan yn rhael yn	k star (bias corrected)	0.125	Data do not follow a Discernable Distribution (0.05	)
rannan (i i i i i i i i i i i i i i i i i i i	Theta Star	0.79		
entransa mententra transform different en elde commente antique de commente de commentent foi menten especial c	nu star	20.8		alati aleebitii ka esa koorankesidaleebir
Approximate (	Chi Square Value (.05)	11.44	Nonparametric Statistics	age a report of the part of the control of the cont
Adjuste	d Level of Significance	0.0471	95% CLT UCL	0.213
Adju	sted Chi Square Value	11.32	95% Jackknife UCL	0.214
And the second section of the second section of the second section of the second section of the	CONTROL OF THE CONTRO		95% Standard Bootstrap UCL	0.212
Anderso	n-Darling Test Statistic	28.64	95% Bootstrap-t UCL	67.91
Anderson-Da	rling 5% Critical Value	0.984	95% Hall's Bootstrap UCL	42.63
Kolmogorov-	-Smirnov Test Statistic	0.464	95% Percentile Bootstrap UCL	0.211
Kolmogorov-Smi	rnov 5% Critical Value	0.112	95% BCA Bootstrap UCL	0.29
Data not Gamma Distributed	d at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.402
a commence of the control of the con			97.5% Chebyshev(Mean, Sd) UCL	0.532
Assuming Gam	ma Distribution		99% Chebyshev(Mean, Sd) UCL	0.79
	roximate Gamma UCL	0.18		
95%	Adjusted Gamma UCL	0.182		and a contract of the contract
		£	1	

. .

Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.53
ult or 1/2 SDL (2-butanone)			
	General Stati	stics	al a haqa aqaqal ilaa ay qilqilgii gaasala
Number of Valid Samples	83	Number of Unique Samples	81
Raw Statistics		Log-transformed Statistics	
Minimum	7.1500E-5	Minimum of Log Data	-9.54
Maximum	0.06	Maximum of Log Data	-2.81
Mean	0.0041	Mean of log Data	-6.32
Median	0.0019	SD of log Data	1.3
SD	0.0074		**************************************
Coefficient of Variation	1.818		***************
Skewness	5.537		
	Relevant UCL S	tatistics	Abropa prompty openia
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.294	Lilliefors Test Statistic	0.1
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.0
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	, , , , , , , , , , , , , , , , , , ,
95% Student's-t UCL	0.0054	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.006	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0055	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	0.708	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	0.0058		
nu star	117.5		Aparticipal Const.
Approximate Chi Square Value (.05)	93.51	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0
Adjusted Chi Square Value	93.13	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	1.855	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.796	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.134	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.102	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution	4	99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0051		
oo n Aujusta damina ool	0.0002		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.0

	General	Statistics	
Number of Valid Samples	83	Number of Unique Samples	79
	······································		
Raw Statistics	1.0000= 1	Log-transformed Statistics	~ <del></del>
<del>id bbbs 1166bbw</del> ardonywoon (paramanananananananananananananananananan	1.8900E-4	Minimum of Log Data	-8.574
Maximum	0.159	Maximum of Log Data	-1.842
Mean	0.0040		-7.35
	3.7750E-4	SD of log Data	1.34
SD	0.018		
Coefficient of Variation	4.426		
Skewness	7.989		anna tita (*a) - i palantiglia - Alektrolak
F	Relevant UC	CL Statistics	
Normal Distribution Test	Pro-Milada et eller ed el eller de la elle	Lognormal Distribution Test	10 m 10 m/s 104 - 111 m/w
Lilliefors Test Statistic	0.415	Lilliefors Test Statistic	0.399
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	lade Casa and Casa and Casa Casa Casa Casa Casa Casa Casa Cas
95% Student's-t UCL	0.0073		0.002
95% UCLs (Adjusted for Skewness)	0.0073	95% Chebyshev (MVUE) UCL	0.002
95% Adjusted-CLT UCL	0.0091		0.002
95% Modified-t UCL	0.0076	99% Chebyshev (MVUE) UCL	0.004
Gamma Distribution Test	ar an an ann an	Data Distribution	may a part open species on the best consistent and part
k star (bias corrected)	0.358	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0113		and the state of t
nu star	59.38		
Approximate Chi Square Value (.05)	42.66	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.007
Adjusted Chi Square Value	42.41	95% Jackknife UCL	0.007
		95% Standard Bootstrap UCL	0.007
Anderson-Darling Test Statistic	20.58	95% Bootstrap-t UCL	0.014
Anderson-Darling 5% Critical Value	0.851	95% Hall's Bootstrap UCL	0.017
Kolmogorov-Smirnov Test Statistic	0.455	95% Percentile Bootstrap UCL	0.007
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.010
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.012
		97.5% Chebyshev(Mean, Sd) UCL	0.016
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.023
95% Approximate Gamma UCL	0.0056		
95% Adjusted Gamma UCL	0.0056		Visit + 12-11-12-11-12-11-11-11-11-11-11-11-11-1
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.016
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0056		Value to Landau de L
	General	Statistics	
Number of Valid Samples	166	Number of Unique Samples	84
Raw Statistics		Log-transformed Statistics	
Minimum	0.0047		-5.354

	1 2 2		
Maximum	7.21	Maximum of Log Data	1.975
Mean	0.0694	Mean of log Data	-4.533
Median	0.0056	SD of log Data	1.209
SD	0.561		
Coefficient of Variation	8.087		graces of the second
Skewness	12.66		
	Relevant UC	CL Statistics	
Normal Distribution Test	***************************************	Lognormal Distribution Test	******************************
Lilliefors Test Statistic	0.454	Lilliefors Test Statistic	0.354
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.141	95% H-UCL	0.027
95% UCLs (Adjusted for Skewness)	1	95% Chebyshev (MVUE) UCL	0.027
95% Adjusted CLT UCL	0.187	97.5% Chebyshev (MVUE) UCL	0.038
95% Modified-t UCL	0.187	99% Chebyshev (MVUE) UCL	0.038
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.357	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.194		
nu star	118.4		
Approximate Chi Square Value (.05)	94.29	Nonparametric Statistics	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Adjusted Level of Significance	0.0486	95% CLT UCL	0.141
Adjusted Chi Square Value	94.11	95% Jackknife UCL	0.141
		95% Standard Bootstrap UCL	0.146
Anderson-Darling Test Statistic	6.024E+28	95% Bootstrap-t UCL	0.686
Anderson-Darling 5% Critical Value	0.854	95% Hall's Bootstrap UCL	0.403
Kolmogorov-Smirnov Test Statistic	0.361	95% Percentile Bootstrap UCL	0.155
Kolmogorov-Smirnov 5% Critical Value	0.078	95% BCA Bootstrap UCL	0.205
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.259
		97.5% Chebyshev(Mean, Sd) UCL	0.341
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.503
95% Approximate Gamma UCL	0.0871		
95% Adjusted Gamma UCL	0.0873		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.341
esult or 1/2 SDL (4,4'-ddd)			
	General :	Statistics	**************************************
Number of Valid Samples	166	Number of Unique Samples	100
Day Chatlatia	4	Log-transformed Statistics	and the second seco
Raw Statistics	1.1750E-4	Log-transformed Statistics  Minimum of Log Data	-9.049
Maximum	1.1750E-4 1.12	Maximum of Log Data  Maximum of Log Data	-9.049 0.113
waximum Mean	0.0076	_	-8.292
Median	1.3950E-4	SD of log Data	-6.292 1.373
Wedan	0.0869	SD of log Data	1.070
Coefficient of Variation	11.34		

Skewness	12.86		-17
Skewness	12.80		
	Relevant UCL S	tatistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.473	Lilliefors Test Statistic	0.396
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0188	95% H-UCL	8.4016E-4
95% UCLs (Adjusted for Skewness)	J	95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.026	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0199	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test		Data Distribution	<b></b>
k star (bias corrected)	0.213	Data do not follow a Discernable Distribution (0.05	
Theta Star	0.0359	Data do not foliow a Discernable Distribution (0:00	·
nu star	70.78		
Approximate Chi Square Value (.05)	52.41	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.018
Adjusted Chi Square Value	52.28	95% Jackknife UCL	0.018
		95% Standard Bootstrap UCL	0.018
Anderson-Darling Test Statistic	48.45	95% Bootstrap-t UCL	0.31
Anderson-Darling 5% Critical Value	0.908	95% Hall's Bootstrap UCL	0.188
Kolmogorov-Smirnov Test Statistic	0.432	95% Percentile Bootstrap UCL	0.021
Kolmogorov-Smirnov 5% Critical Value	0.08	95% BCA Bootstrap UCL	0.034
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.037
		97.5% Chebyshev(Mean, Sd) UCL	0.049
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.074
95% Approximate Gamma UCL	0.0104		
95% Adjusted Gamma UCL	0.0104		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.049
Result or 1/2 SDL (4,4'-dde)			
	General Stati	istics	
Number of Valid Samples	166	Number of Unique Samples	113
Raw Statistics		Log-transformed Statistics	
Minimum	1.6300E-4	Minimum of Log Data	-8.722
Maximum	0.0693	Maximum of Log Data	-2.669
Mean	0.0017	Mean of log Data	-7.973
Median		SD of log Data	1.22
SD	0.0076		ante en conques non rivores vagino propri magin
Coefficient of Variation	4.484		Landendrick (147) f. t. er fladdig ger ton tel berge
Skewness	7.741		
	Relevant UCL S	statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.42	· Lilliefors Test Statistic	0.379

1:00 2	0.0000		0.0688
Lilliefors Critical Value  Data not Normal at 5% Significance Level	0.0688	Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	0.088
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0026	95% H-UCL	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0030	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0027	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.407	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0041		
nu star	135.2		····
Approximate Chi Square Value (.05)	109.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.002
Adjusted Chi Square Value	109.1	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.002
Anderson-Darling Test Statistic	36.49	95% Bootstrap-t UCL	0.004
Anderson-Darling 5% Critical Value	0.842	95% Hall's Bootstrap UCL	0.006
Kolmogorov-Smirnov Test Statistic	0.408	95% Percentile Bootstrap UCL	0.002
Kolmogorov-Smirnov 7 est Statistic	0.408	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le	l	95% Chebyshev(Mean, Sd) UCL	0.004
Data not Gamina Distributed at 5% Significance Le	vei		0.005
		97.5% Chebyshev(Mean, Sd) UCL	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.007
95% Approximate Gamma UCL	0.0021		
95% Adjusted Gamma UCL	0.0021		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.005
esult or 1/2 SDL (4,4'-ddt)			
	General Sta	atistics	
Number of Valid Samples	General Sta	atistics  Number of Unique Samples	114
	(HIMIN -11-4-1-1-11-4-1-1-1-1-1-1-1-1-1-1-1-1-	Number of Unique Samples	114
Raw Statistics	166	Number of Unique Samples  Log-transformed Statistics	
Raw Statistics Minimum	166   6.2500E-5	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-9.68
Raw Statistics	166	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-9.68 -2.18
Raw Statistics Minimum	166   6.2500E-5	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.68
Raw Statistics Minimum Maximum	166 6.2500E-5 0.113	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-9.68 -2.18 -7.782
Raw Statistics Minimum Maximum Mean	6.2500E-5 0.113 0.0037	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.68 -2.18 -7.782
Raw Statistics  Minimum  Maximum  Mean  Median	6.2500E-5 0.113 0.0037 1.1075E-4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.68 -2.18 -7.782
Raw Statistics  Minimum  Maximum  Mean  Median  SD	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.68 -2.18 -7.782
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114 3.045	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-9.68 -2.18 -7.782
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114 3.045 6.653	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-9.68 -2.18 -7.782
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114 3.045 6.653	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-9.68 -2.18 -7.782
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114 3.045 6.653 Relevant UCL	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test	-9.68 -2.18 -7.782 2.033
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114 3.045 6.653	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	-9.68 -2.18 -7.782 2.033
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value	6.2500E-5 0.113 0.0037 1.1075E-4 0.0114 3.045 6.653 Relevant UCL	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lilliefors Test Statistic  Lilliefors Critical Value	-9.68 -2.18 -7.782 2.033

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.006
95% Adjusted-CLT UCL	0.0056	97.5% Chebyshev (MVUE) UCL	0.008
95% Modified-t UCL	0.0052	99% Chebyshev (MVUE) UCL	0.011
Gamma Distribution Test		Data Distribution	Maria Carrier and Carrier
k star (bias corrected)	0.311	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.012		/
nu star	103.2		
Approximate Chi Square Value (.05)	80.8	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.005
Adjusted Chi Square Value	80.63	95% Jackknife UCL	0.005
		95% Standard Bootstrap UCL	0.005
Anderson-Darling Test Statistic	16.11	95% Bootstrap-t UCL	0.006
Anderson-Darling 5% Critical Value	0.866	95% Hall's Bootstrap UCL	0.011
Kolmogorov-Smirnov Test Statistic	0.256	95% Percentile Bootstrap UCL	0.005
Kolmogorov-Smirnov 5% Critical Value	0.230	95% BCA Bootstrap UCL	0.005
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.007
Data not Gamina Distributed at 5% Significance Le	vei	97.5% Chebyshev(Mean, Sd) UCL	0.009
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
	. 0.0047	99% Chebysnev(Mean, Su) OCL	0.012
95% Approximate Gamma UCL	0.0047		
95% Adjusted Gamma UCL	0.0047		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.012
It or 1/2 SDL (acenaphthene)			
	General S		108
It or 1/2 SDL (acenaphthene)  Number of Valid Samples	General S	tatistics  Number of Unique Samples	108
	*****		108
Number of Valid Samples	*****	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	108
Number of Valid Samples Raw Statistics	166	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.438
Number of Valid Samples  Raw Statistics  Minimum	0.0043	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-5.438
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0043 1.69	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.438 0.528 -4.516
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0043 1.69 0.0419	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.438 0.528 -4.516
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0043 1.69 0.0419 0.0052	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.438 0.528 -4.516
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0043 1.69 0.0419 0.0052 0.15	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.438 0.525
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.438 0.528 -4.516
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0043 1.69 0.0419 0.0052 0.15 3.573	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.438 0.528 -4.516
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.438 0.528 -4.516 1.296
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test	-5.438 0.528 -4.516 1.296
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834 Relevant UCL	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic	-5.438 0.529 -4.516 1.290
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834 Relevant UCL	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	-5.438 0.529 -4.516 1.299
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834  Relevant UCL 0.401 0.0688	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-5.438 0.52 -4.516 1.29 0.35 0.06
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0043 1.69 0.0419 0.0052 0.15 3.573 8.834 Relevant UCL	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-5.438 0.529 -4.516 1.299 0.359 0.066
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0043 1.69 0.00419 0.0052 0.15 3.573 8.834  Relevant UCL 0.401 0.0688	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.438 0.529 -4.516 1.296 0.359 0.068
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	0.0043 1.69 0.00419 0.0052 0.15 3.573 8.834  Relevant UCL 0.401 0.0688	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.438 0.525 -4.516 1.296 0.359 0.068 0.032 0.032
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0043 1.69 0.00419 0.0052 0.15 3.573 8.834  Relevant UCL 0.401 0.0688	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.438 0.525 -4.516 1.296 0.359 0.068

Leader (Line course de di	0.470	Date do not follow a Discornable Distribution (2015)	-
k star (bias corrected)	0.472	Data do not follow a Discernable Distribution (0.05)	Leconor analysis on pac
Theta Star	0.0889		
nu star	156.6	Namacra-stric Class-st	tanasaka aki Umasa katika ka
Approximate Chi Square Value (.05)	128.7	Nonparametric Statistics	0.061
Adjusted Level of Significance	0.0486	95% CLT UCL 95% Jackknife UCL	0.061
Adjusted Chi Square Value	128.4		
Anderson Doubles Total Obstacles	07.4	95% Standard Bootstrap UCL	0.0611
Anderson-Darling Test Statistic	27.1	95% Bootstrap-t UCL	0.0864
Anderson-Darling 5% Critical Value	0.826	95% Hall's Bootstrap UCL	
Kolmogorov-Smirnov Test Statistic	0.369	95% Percentile Bootstrap UCL	0.0627 0.0746
Kolmogorov-Smirnov 5% Critical Value	0.0768	·	0.0740
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	
		97.5% Chebyshev(Mean, Sd) UCL	0.115
Assuming Gamma Distribution	Y	99% Chebyshev(Mean, Sd) UCL	0.158
95% Approximate Gamma UCL	0.051		
95% Adjusted Gamma UCL	0.0511		
			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Potential UCL to Use	10-lanu ph () 11-180 ret in Leta reference - 1.82 km i col	Use 97.5% Chebyshev (Mean, Sd) UCL	0.115
	igrafi all anad <b>iga</b> n marifilis distinan encombra		forms, the same and the parties that the
Result or 1/2 SDL (acenaphthylene)			
nesult of 1/2 ode (acenaphinisene)	***************************************		
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	79
Number of Valid Samples	100	Number of omique samples	73
Raw Statistics		Log-transformed Statistics	
Minimum	0.0049		-5.312
Maximum	1.2	Maximum of Log Data	0.182
Mean	0.042	Mean of log Data	-4.467
Median	0.042		1.213
SD	0.149	SD Of log Data	
Coefficient of Variation	3.543		······································
Skewness	6.646		v
Skewiless	0.040		
	Relevant UC	2) Statistics	Grap toggistyranity talknak syndron
Normal Distribution Test	veievaill UC	Lognormal Distribution Test	
Lilliefors Test Statistic	0.402	Lilliefors Test Statistic	0.365
Lilliefors Critical Value	0.402		0.0688
Data not Normal at 5% Significance Level	0.0000	Data not Lognormal at 5% Significance Level	0.0000
Data not ivolitial at 5 % Significance Level	mmamamamama union		ntranta <u>, ao ami</u> dia mahintatra a
Assuming Normal Distribution		Assuming Lognormal Distribution	NEW COLUMN STATE STATE STATE OF THE STATE OF
95% Student's-t UCL	0.0612		0.0299
95% UCLs (Adjusted for Skewness)	0.0012	95% Chebyshev (MVUE) UCL	0.029
95% docts (Adjusted for Skewness)  95% Adjusted-CLT UCL	0.0674		0.0362
		99% Chebyshev (MVUE) UCL	0.0418
95% Modified-t UCL	0.0621	33% Chebysnev (NIVOE) UCL	0.0520
Gamma Distribution Test		Data Distribution	d have the statement due to the statement described
	0.400		
k star (bias corrected)	0.486	Data do not follow a Discernable Distribution (0.05)	· · · · · · · · · · · · · · · · · · ·
Theta Star	0.0865		
nu star	161.3	Non-one and the state of the st	
Approximate Chi Square Value (.05)	133	Nonparametric Statistics	0.004
Adjusted Level of Significance	0.0486	95% CLT UCL	0.061

Adjusted Chi Square Value	132.7	95% Jackknife UCL	0.0612
		95% Standard Bootstrap UCL	0.060
Anderson-Darling Test Statistic	28.55	95% Bootstrap-t UCL	0.077
Anderson-Darling 5% Critical Value	0.822	95% Hall's Bootstrap UCL	0.062
Kolmogorov-Smirnov Test Statistic	0.375	95% Percentile Bootstrap UCL	0.062
Kolmogorov-Smirnov 5% Critical Value	0.0767	95% BCA Bootstrap UCL	0.068
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.092
		97.5% Chebyshev(Mean, Sd) UCL	0.114
Assuming Gamma Distribution	L	99% Chebyshev(Mean, Sd) UCL	0.157
95% Approximate Gamma UCL	0.051		
95% Adjusted Gamma UCL	0.0511		V.,
			••••••••••••••••••••••••••••••••••••••
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.114
sult or 1/2 SDL (acetone)	General Sta	uistics	
Number of Valid Samples	83	Number of Unique Samples	77
Raw Statistics		Log-transformed Statistics	W-711111 W-7-1 LEFT AND TO THE
Minimum	8.5500E-5	Minimum of Log Data	-9.367
Maximum	0.16	Maximum of Log Data	-1.833
Mean	0.0145	Mean of log Data	-6.403
Median	0.0021	SD of log Data	2.342
SD	0.0317		
Coefficient of Variation	2.181		de transfer de sand error, une a départer des les que
Skewness	3.374		
Fig. 1. Section of the section of th	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	***************************************
Lilliefors Test Statistic	0.328	Lilliefors Test Statistic	0.26
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	a Na Northetophia eras el Maria resente
95% Student's-t UCL	0.0203	95% H-UCL	0.068
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	0.065
95% Adjusted-CLT UCL	0.0216	97.5% Chebyshev (MVUE) UCL	0.083
95% Modified-t UCL	0.0205	99% Chebyshev (MVUE) UCL	0.12
Gamma Distribution Test		Data Distribution	one of the state o
k star (bias corrected)	0.312	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.0466		
nu star	51.74		ent digi ciata rengengo, e tendepanter cet at
Approximate Chi Square Value (.05)	36.22	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0471	95% CLT UCL	0.02
Adjusted Chi Square Value	35.99	95% Jackknife UCL	0.02
· · · · · · · · · · · · · · · · · · ·		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	5.243	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.862	95% Hall's Bootstrap UCL	0.02
A GIGGO DOLLING O /0 CHICAL VAIUS	0,002	33 % Figure Doorshap OCL	0.02

	1, 30		
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.021
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.029
		97.5% Chebyshev(Mean, Sd) UCL	0.036
Assuming Gamma Distribution	l	99% Chebyshev(Mean, Sd) UCL	0.049
95% Approximate Gamma UCL	0.0207		
95% Adjusted Gamma UCL	0.0209		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.04
sult or 1/2 SDL (aluminum)			
	General S	Statistics	Direktyft an ak ak ak gan hen an ti
Number of Valid Samples	166	Number of Unique Samples	149
Raw Statistics		Log-transformed Statistics	
Minimum	414	Minimum of Log Data	6.02
Maximum	15700	Maximum of Log Data	9.66
Mean	6452	Mean of log Data	8.56
Median	6175	SD of log Data	0.71
SD	3601		
Coefficient of Variation	0.558		
Skewness	0.362		
F	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	and the state of t
Lilliefors Test Statistic	0.0643	Lilliefors Test Statistic	0.10
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	6914	95% H-UCL	
0EW 1101 - /Adi., at a discourse 1			7566
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	7566 8609
95% UCLS (Adjusted for Skewness) 95% Adjusted-CLT UCL	6920	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	
	6920 6916		8609
95% Adjusted-CLT UCL 95% Modified-t UCL		97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	8609 9402
95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	6916	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	8609 9402
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected)	2.531	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	8609 9402
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star	2.531 2550	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	8609 9402
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star nu star	2.531 2550 840.1	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Normal at 5% Significance Level	8609 9402
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)	2.531 2550	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	8609 9402
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance	2.531 2550 840.1 773.9	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Normal at 5% Significance Level  Nonparametric Statistics	8609 9402 10961
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)	2.531 2550 840.1 773.9 0.0486	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Normal at 5% Significance Level  Nonparametric Statistics  95% CLT UCL 95% Jackknife UCL	8609 9402 10961
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star nu star Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value	2.531 2550 840.1 773.9 0.0486	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Normal at 5% Significance Level  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	8609 9402 10961 6912 6914
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance	2.531 2550 840.1 773.9 0.0486 773.3	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Normal at 5% Significance Level  Nonparametric Statistics  95% CLT UCL 95% Jackknife UCL	8609 9402 10961 6912 6914 6909
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value	2.531 2550 840.1 773.9 0.0486 773.3	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Normal at 5% Significance Level  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	8609 9402 10961 6912 6914 6909 6915
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic	2.531 2550 840.1 773.9 0.0486 773.3	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Normal at 5% Significance Level  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	8609 9402 10961 6912 6914 6909 6915 6904
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value	2.531 2550 840.1 773.9 0.0486 773.3 1.49 0.762 0.0875 0.0731	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Normal at 5% Significance Level  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Bootstrap UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	6912 6914 6909 6915 6904 6905
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic	2.531 2550 840.1 773.9 0.0486 773.3 1.49 0.762 0.0875 0.0731	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Normal at 5% Significance Level  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL	8609 9402 10961 6912 6914 6909 6915 6904
95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value	2.531 2550 840.1 773.9 0.0486 773.3 1.49 0.762 0.0875 0.0731	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data appear Normal at 5% Significance Level  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Bootstrap UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	8609 9402 10961 6912 6914 6909 6915 6904 6905 6915 7670

7009		
	Use 95% Student's-t UCL	6914
we will be a second of the sec		
· · · · · · · · · · · · · · · · · · ·		***
166	Number of Unique Sarripies	103
and make make make and an indicate a second of	Log transformed Statistics	Decrees the Special control of the Special Co
0 0049	_	-5.310
		-5.310
	- !	-4.02
	_	-4.02. 1.50
elevant UCL		
0 272		0.2
		0.2
U.U000	Data not Lognormal at 5% Significance Level	U.U
	Assuming Lognormal Distribution	
0.12	95% H-UCL	0.0
	95% Chebyshev (MVUE) UCL	0.1
0.13	97.5% Chebyshev (MVUE) UCL	0.1
0.122	99% Chebyshev (MVUE) UCL	0.1
	Data Distribution	numanalar eranar este e sidente e
0.409	Data do not follow a Discernable Distribution (0.05	5)
0.214		
135.9		
110	Nonparametric Statistics	#14/2011 Assistant and a
0.0486	95% CLT UCL	0.1
109.8	95% Jackknife UCL	0.1
	95% Standard Bootstrap UCL	0.1
20.06	95% Bootstrap-t UCL	0.1
0.841	95% Hall's Bootstrap UCL	0.1
0.274	95% Percentile Bootstrap UCL	0.1
0.0775	95% BCA Bootstrap UCL	0.1
vel	95% Chebyshev(Mean, Sd) UCL	0.1
	97.5% Chebyshev(Mean, Sd) UCL	0.2
	99% Chebyshev(Mean, Sd) UCL	0.2
0.108		
0.108		
	General Sta  166  0.0049 2.46 0.0874 0.0060 0.254 2.9 6.356  Relevant UCL 3 0.372 0.0688  0.12  0.12  0.13 0.122  0.409 0.214 135.9 110 0.0486 109.8  20.06 0.841 0.274 0.0775 vel	Use 95% Student's-t UCL

	General	Statistics	
Number of Valid Samples	166	Number of Unique Samples	83
David State		Landau John John John John John John John John	de emercado unid
Raw Statistics	0.005	Log-transformed Statistics	0.054
Minimum	0.095	Minimum of Log Data	-2.354
Maximum Mean	5.51 1.023	Maximum of Log Data  Mean of log Data	1.70 -0.654
Median	0.24	SD of log Data	1.19
SD	1.14	SD OI log Data	1.13
Coefficient of Variation	. 1.114		***************************************
Skewness	1.329		
	Relevant UC	CL Statistics	
Normal Distribution Test	an a decimanded by a conference on the figure conference of	Lognormal Distribution Test	
Lilliefors Test Statistic	0.291	Lilliefors Test Statistic	0.26
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level	***************************************	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.17	95% H-UCL	1.31
95% UCLs (Adjusted for Skewness)	ar retar breezh an ar man ar man a panon	95% Chebyshev (MVUE) UCL	1.59
95% Adjusted-CLT UCL	1.179	97.5% Chebyshev (MVUE) UCL	1.82
95% Modified-t UCL	1.171	99% Chebyshev (MVUE) UCL	2.29
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.856	Data Distribution  Data do not follow a Discernable Distribution (0.05)	
Theta Star	1,196	Data do not follow a Discernable Distribution (0.03)	
	284.1		
Approximate Chi Square Value (.05)	246	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0486	-	1.16
Adjusted Chi Square Value	245.7	95% Jackknife UCL	1.17
Augusta on oquara vuid		95% Standard Bootstrap UCL	1.16
Anderson-Darling Test Statistic	12.23	95% Bootstrap-t UCL	1.17
Anderson-Darling 5% Critical Value	0.79	95% Hall's Bootstrap UCL	1.18
Kolmogorov-Smirnov Test Statistic	0.286	95% Percentile Bootstrap UCL	1.17
Kolmogorov-Smirnov 5% Critical Value	0.0749	95% BCA Bootstrap UCL	1.16
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	1.40
		97.5% Chebyshev(Mean, Sd) UCL	1.57
Assuming Gamma Distribution	1900 <del>1</del> -20-6 pri 2-46 pri 1964 pri 1964 pri 1964 pri 1964 pri 1964 pri 1966	99% Chebyshev(Mean, Sd) UCL	1.90
95% Approximate Gamma UCL	1.182		***************************************
95% Adjusted Gamma UCL	1.183		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	1.57
It or 1/2 SDL (aroclor-1254)			
			· Maria and above the state of
	General S		

Raw Statistics		Log-transformed Statistics	
Minimum	0.0016	Minimum of Log Data	-6.422
Maximum	11.5	Maximum of Log Data	2.442
			-5.38
Mean	0.205	Mean of log Data	
Median	0.0019	SD of log Data	1.955
SD	1.131		
Coefficient of Variation	5.523		
Skewness	8.01		
F	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.443	Lilliefors Test Statistic	0.402
Lilliefors Critical Value	0.0672	Lilliefors Critical Value	0.0672
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.347	95% H-UCL	0.0496
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0618
95% Adjusted-CLT UCL	0.401	97.5% Chebyshev (MVUE) UCL	0.0754
95% Modified-t UCL	0.355	99% Chebyshev (MVUE) UCL	0.102
Oppose Natibutha Task		Date Distribution	
Gamma Distribution Test		Data Distribution	e-)
k star (bias corrected)	0.195	Data do not follow a Discernable Distribution (0.05	)
Theta Star	1.049		***************************************
nu star	67.95		
Approximate Chi Square Value (.05)	49.98	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.346
Adjusted Chi Square Value	49.85	95% Jackknife UCL	0.347
		95% Standard Bootstrap UCL	0.344
Anderson-Darling Test Statistic	46.09	95% Bootstrap-t UCL	0.573
Anderson-Darling 5% Critical Value	0.922	95% Hall's Bootstrap UCL	0.86
Kolmogorov-Smirnov Test Statistic	0.437	95% Percentile Bootstrap UCL	0.36
Kolmogorov-Smirnov 5% Critical Value	0.0782	95% BCA Bootstrap UCL	0.439
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	0.578
		97.5% Chebyshev(Mean, Sd) UCL	0.74
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.058
95% Approximate Gamma UCL	0.278		
95% Adjusted Gamma UCL	0.279		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.74
Result or 1/2 SDL (arsenic)			
Number of Valid Samples	General S 166	Statistics  Number of Unique Samples	146
Raw Statistics		Log-transformed Statistics	manus i ka Madana d'an by adap bilga nada na paren.
Minimum	0.085	Minimum of Log Data	-2.465
Maximum	24.3	Maximum of Log Data	3.19
Mean	3.331	Mean of log Data	0.67
Median	2.68	SD of log Data	1.225

SD	3.269		
Coefficient of Variation	0.981		
Skewness	2.631		
	Palayant I IC	CL Statistics	
Normal Distribution Test	Relevant UC	Lognormal Distribution Test	erentitives mineral dense
Lilliefors Test Statistic	0.16	Lilliefors Test Statistic	0.15
Lilliefors Critical Value	0.0688		0.06
Data not Normal at 5% Significance Level	0.0000	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	and the state of t	Assuming Lognormal Distribution	
95% Student's-t UCL	3.751	95% H-UCL	5.18
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	6.31
95% Adjusted-CLT UCL	3.804	97.5% Chebyshev (MVUE) UCL	7.26
95% Modified-t UCL	3.76	99% Chebyshev (MVUE) UCL	9.14
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.057	Data do not follow a Discernable Distribution (0.05	)
Theta Star	3.15		,
nu star	351.1		
Approximate Chi Square Value (.05)	308.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	-	3.74
Adjusted Chi Square Value	308.3	95% Jackknife UCL	3.75
		95% Standard Bootstrap UCL	3.73
Anderson-Darling Test Statistic	1,15	95% Bootstrap-t UCL	3.82
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	3.83
Kolmogorov-Smirnov Test Statistic	0.0872	95% Percentile Bootstrap UCL	3.76
Kolmogorov-Smirnov 5% Critical Value	0.0744	95% BCA Bootstrap UCL	3.78
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	4.43
9		97.5% Chebyshev(Mean, Sd) UCL	4.91
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	5.85
95% Approximate Gamma UCL	3.789	and the state of t	
95% Adjusted Gamma UCL	3.793		annangaran ang ang anna
Potential UCL to Use	1920 <b>1920</b> 1920 1920 1920 1920 1920 1920 1920 1920	Use 97.5% Chebyshev (Mean, Sd) UCL	4.91
i dental del dise		Use 37.3 % Offebysilev (Weari, 30) CCL	7.31
sult or 1/2 SDL (barium)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	135
Raw Statistics		Log-transformed Statistics	yadin si kasala Mayaki, si aki san ka
Minimum	18.6	Minimum of Log Data	2.92
Maximum	2180	Maximum of Log Data	7.68
Mean	237.4	Mean of log Data	5.10
Median	139.5	SD of log Data	0.78
SD	274.8		
		, Philips (In 1914) (In 19	
Coefficient of Variation	1.158	<b>.</b>	

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.276	Lilliefors Test Statistic	0.126
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.0688
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	antrocessinary story over we
Assuming Normal Distribution 95% Student's-t UCL	272.7	Assuming Lognormal Distribution 95% H-UCL	254.2
95% UCLs (Adjusted for Skewness)	212.1	95% Chebyshev (MVUE) UCL	292.4
95% Adjusted-CLT UCL	279	97.5% Chebyshev (MVUE) UCL	321.9
95% Modified-t UCL	273.7	99% Chebyshev (MVUE) UCL	379.8
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.489	Data do not follow a Discernable Distribution (0.05	)
Theta Star	159.4		
nu star	494.5		hard-township or the same of t
Approximate Chi Square Value (.05)	443.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	272.5
Adjusted Chi Square Value	443.5	95% Jackknife UCL	272.7
		95% Standard Bootstrap UCL	271.5
Anderson-Darling Test Statistic	7.901	95% Bootstrap-t UCL	282.1
Anderson-Darling 5% Critical Value	0.771	95% Hall's Bootstrap UCL	283.4
Kolmogorov-Smirnov Test Statistic	0.186	95% Percentile Bootstrap UCL	274.8
Kolmogorov-Smirnov 5% Critical Value	0.0738	95% BCA Bootstrap UCL	279.3
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	330.4
		97.5% Chebyshev(Mean, Sd) UCL	370.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	449.6
95% Approximate Gamma UCL	264.4		
95% Adjusted Gamma UCL	264.7		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	330.4
Result or 1/2 SDL (benzene)	ertti Miller (1941 sajat (1941 septem esti per 1946 etg. 1945 etg. 1945 etg. 1945 etg. 1945 etg. 1945 etg. 194 Omre gapt als estat estat (1945 etg. 1946 etg. 194		
	General S	Valiation	
Number of Valid Samples	83	Number of Unique Samples	78
Trumboi oi Tana oumpio		Tullibol of ortique courses	, , , , , , , , , , , , , , , , , , ,
Raw Statistics		Log-transformed Statistics	
Minimum	4.7500E-5	Minimum of Log Data	-9.955
Maximum	0.0221	Maximum of Log Data	-3.812
Mean	0.0040	Mean of log Data	-5.975
Median	0.0032	SD of log Data	1.26
SD	0.0036		
Coefficient of Variation	0.883		
Skewness	2.64		
F	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.135	Lilliefors Test Statistic	0.182
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.0973
Data not Normal at 5% Significance Level	L	Data not Lognormal at 5% Significance Level	warranga katanga katang matanga

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0047	95% H-UCL	0.0079
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0098
95% Adjusted-CLT UCL	0.0048	97.5% Chebyshev (MVUE) UCL	0.0117
95% Modified-t UCL	0.0047	99% Chebyshev (MVUE) UCL	0.0153
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.16	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0035		***************************************
nu star	192.5		
Approximate Chi Square Value (.05)	161.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.004
Adjusted Chi Square Value	160.9	95% Jackknife UCL	0.004
		95% Standard Bootstrap UCL	0.004
Anderson-Darling Test Statistic	1.58	95% Bootstrap-t UCL	0.0049
Anderson-Darling 5% Critical Value	0.778	95% Hall's Bootstrap UCL	0.0050
Kolmogorov-Smirnov Test Statistic	0.114	95% Percentile Bootstrap UCL	0.0047
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	0.0049
Data not Gamma Distributed at 5% Significance Le	ŧ i	95% Chebyshev(Mean, Sd) UCL	0.0058
		97.5% Chebyshev(Mean, Sd) UCL	0.006
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.0080
95% Approximate Gamma UCL	0.0048		
95% Adjusted Gamma UCL	0.0048		
Potential UCL to Use Result or 1/2 SDL (benzo(a)anthracene)		Use 97.5% Chebyshev (Mean, Sd) UCL	0.006
Result or 1/2 SDL (benzo(a)anthracene)	General S	tatistics	0.006
	General S		0.006
Result or 1/2 SDL (benzo(a)anthracene)	q.=	tatistics	0.0065
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples	q.=	tatistics  Number of Unique Samples	
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics	166	Number of Unique Samples  Log-transformed Statistics	110
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum	0.0044	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	110
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0044 5.02	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	110 -5.415 1.613
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0044 5.02 0.268	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.415 1.613 -3.885
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0044 5.02 0.268 0.0054	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.415 1.613 -3.885
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0044 5.02 0.268 0.0054 0.765	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.415 1.613 -3.885
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.415 1.613 -3.885
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0044 5.02 0.268 0.0054 0.765 2.854	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.415 1.613 -3.885
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.415 1.613 -3.885
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	110 -5.415 1.613 -3.885 2.05
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  I  Normal Distribution Test  Lilliefors Test Statistic	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224 Relevant UC	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic	110 -5.415 1.613 -3.885 2.05
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	110 -5.415 1.613 -3.885 2.05
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	110 -5.415 1.613 -3.885 2.05
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  I  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224 Relevant UC	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-5.415 1.613 -3.885 2.05
Result or 1/2 SDL (benzo(a)anthracene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0044 5.02 0.268 0.0054 0.765 2.854 4.224 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	110 -5.415 1.613 -3.885 2.05 0.315 0.0688

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.272	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	0.986		
nu star	90.22		
Approximate Chi Square Value (.05)	69.32	Nonparametric Statistics	-tT
Adjusted Level of Significance	0.0486	95% CLT UCL	0.366
Adjusted Chi Square Value	69.16	95% Jackknife UCL	0.366
		95% Standard Bootstrap UCL	0.362
Anderson-Darling Test Statistic	26.03	95% Bootstrap-t UCL	0.399
Anderson-Darling 5% Critical Value	0.881	95% Hall's Bootstrap UCL	0.394
Kolmogorov-Smirnov Test Statistic	0.324	95% Percentile Bootstrap UCL	0.37
Kolmogorov-Smirnov 5% Critical Value	0.0791	95% BCA Bootstrap UCL	0.385
Data not Gamma Distributed at 5% Significance Lev	rel	95% Chebyshev(Mean, Sd) UCL	0.527
		97.5% Chebyshev(Mean, Sd) UCL	0.639
Assuming Gamma Distribution	•	99% Chebyshev(Mean, Sd) UCL	0.859
95% Approximate Gamma UCL	0.349		
95% Adjusted Gamma UCL	0.35		
	4.411.111.111.111.111.111.111.111.111.1		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.859
			ne. promoto tomourantimo
Raw Statistics		Log-transformed Statistics	
Minimum	0.0044	Minimum of Log Data	-5.419
Minimum Maximum	4.88	Minimum of Log Data   Maximum of Log Data	1.585
Minimum Maximum Mean	4.88 0.347	Minimum of Log Data  Maximum of Log Data  Mean of log Data	1.585 -3.193
Minimum Maximum Mean Median	4.88 0.347 0.0253	Minimum of Log Data   Maximum of Log Data	1.585
Minimum Maximum Mean Median SD	4.88 0.347 0.0253 0.856	Minimum of Log Data  Maximum of Log Data  Mean of log Data	1.585 -3.193
Minimum Maximum Mean Median	4.88 0.347 0.0253	Minimum of Log Data  Maximum of Log Data  Mean of log Data	1.585 -3.193
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	4.88 0.347 0.0253 0.856 2.468 3.524	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	1.585 -3.193
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	4.88 0.347 0.0253 0.856 2.468	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	1.585 -3.193
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test	4.88 0.347 0.0253 0.856 2.468 3.524	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test	1.585 -3.193 2.033
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  R Normal Distribution Test Lilliefors Test Statistic	4.88  0.347  0.0253  0.856  2.468  3.524  elevant UCL S	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	1.585 -3.193 2.033 0.137
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test	4.88 0.347 0.0253 0.856 2.468 3.524	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test	1.585 -3.193 2.033
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level	4.88  0.347  0.0253  0.856  2.468  3.524  elevant UCL S	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data  Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	1.585 -3.193 2.033 0.137
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S 0.348 0.0688	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	1.585 -3.193 2.033 0.137 0.0688
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL	4.88  0.347  0.0253  0.856  2.468  3.524  elevant UCL S	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL	1.585 -3.193 2.033 2.033 0.137 0.0688
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S 0.348 0.0688	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data  Statistics  Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	1.585 -3.193 2.033 0.137 0.0688 0.54 0.666
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	4.88  0.347  0.0253  0.856  2.468  3.524  elevant UCL S  0.348  0.0688  0.457	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	1.585 -3.193 2.033 2.033 0.137 0.0688 0.54 0.666 0.819
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	4.88 0.347 0.0253 0.856 2.468 3.524 elevant UCL S 0.348 0.0688	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data  Statistics  Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	1.585 -3.193 2.033 0.137 0.0688 0.54 0.666
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	4.88  0.347  0.0253  0.856  2.468  3.524  elevant UCL S  0.348  0.0688  0.457	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Statistics Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	1.585 -3.193 2.033 2.033 0.137 0.0688 0.54 0.666 0.819
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	4.88  0.347  0.0253  0.856  2.468  3.524  elevant UCL S  0.348  0.0688  0.457	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	1.585 -3.193 2.033 2.033 0.137 0.0688 0.54 0.666 0.819 1.12
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  R Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	4.88  0.347  0.0253  0.856  2.468  3.524  elevant UCL S  0.348  0.0688  0.457  0.475  0.46	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data  Statistics  Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	1.585 -3.193 2.033 2.033 0.137 0.0688 0.54 0.666 0.819 1.12

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	82.00	Name and Challeton	
Approximate Chi Square Value (.05)	82.89	Nonparametric Statistics 95% CLT UCL	0.456
Adjusted Level of Significance	0.0486 82.71	95% Jackknife UCL	0.450
Adjusted Chi Square Value	02./1	95% Standard Bootstrap UCL	0.457
Anderson-Darling Test Statistic	13.58	95% Bootstrap-t UCL	0.481
Anderson-Darling 7% Critical Value	0,864	95% Bootstrap UCL	0.476
Kolmogorov-Smirnov Test Statistic	0.864	95% Percentile Bootstrap UCL	0.470
Kolmogorov-Smirnov 7est Statistic	0.217	95% BCA Bootstrap UCL	0.482
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.432
Data not Gamina Distributed at 3 % Significance Le	VOI	97.5% Chebyshev(Mean, Sd) UCL	0.762
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.008
95% Approximate Gamma UCL	0.442	33% Chebyshev(Weah, 3d) Col	1.000
95% Adjusted Gamma UCL	0.442		
95% Adjusted Gamina OCL	0.443		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.008
Result or 1/2 SDL (benzo(b)fluoranthene)			
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	145
Raw Statistics	A 144 (144 ) A 144	Log-transformed Statistics	
Minimum	0.0033	Minimum of Log Data	-5.688
Maximum	5.97	Maximum of Log Data	1.787
Mean	0.466	Mean of log Data	-2.669
Median	0.0825	SD of log Data	2.179
SD	1.023		· · · · · · · · · · · · · · · · · · ·
Coefficient of Variation	2.192		
Skewness	3.432		
	Relevant UC	1 Statistics	
Normal Distribution Test	ioiorani oo	Lognormal Distribution Test	
Lilliefors Test Statistic	0.325	Lilliefors Test Statistic	0.16
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level	as a second	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.598	95% H-UCL	1.322
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.605
95% Adjusted-CLT UCL	0.62	97.5% Chebyshev (MVUE) UCL	1.992
95% Modified-t UCL	0.601	99% Chebyshev (MVUE) UCL	2.752
Gamma Distribution Test		Data Distribution	nde Mariana de Caracteria de Antonio de Anto
k star (bias corrected)	0.35	Data do not follow a Discernable Distribution (0.05	)
Theta Star	1.332		
nu star	116.2		D SANGER SELECT TRANSPORTER FOR STREET CO.
Approximate Chi Square Value (.05)	92.33	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL \	0.597
Adjusted Chi Square Value	92.15	95% Jackknife UCL	0.598
		95% Standard Bootstrap UCL	0.6
Anderson-Darling Test Statistic	6.109	95% Bootstrap-t UCL	0.629

constitution and a constitution of the constit	l constant	CONTRACTOR OF THE PROPERTY OF	
	0.050		0.004
Anderson-Darling 5% Critical Value	0.856	95% Hall's Bootstrap UCL	0.624
Kolmogorov-Smirnov Test Statistic	0.144	95% Percentile Bootstrap UCL	0.604
Kolmogorov-Smirnov 5% Critical Value	0.0781	95% BCA Bootstrap UCL	0.609
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.812
		97.5% Chebyshev(Mean, Sd) UCL	0.962
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.256
95% Approximate Gamma UCL	0.587		. A
95% Adjusted Gamma UCL	0.588		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.256
			VACATAR SHIPLES SHAPE
Result or 1/2 SDL (benzo(g,h,i)perylene)			
	General S	Statistics	entagarindan ber propriiginantiden sed sket
Number of Valid Samples	166	Number of Unique Samples	125
Raw Statistics	1,5-1,5-1-1, 2,7-1,5-1,6-1,6-1,7-1,7-1,7-1,7-1,7-1,7-1,7-1,7-1,7-1,7	Log-transformed Statistics	nal by have a set of the delegation - headers and out of the set
Minimum	0.0044	Minimum of Log Data	-5.418
Maximum	4.24	Maximum of Log Data	1.445
Mean	0.251	Mean of log Data	-3.365
Median	0.026	SD of log Data	1.982
SD	0.606		
Coefficient of Variation	2.415		an managaman and
Skewness	3.815		M
Normal Distribution Test Lilliefors Test Statistic	Relevant UC 0.342	L Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	0.221
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.329	95% H-UCL	0.40
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.497
95% Adjusted-CLT UCL	0.343	97.5% Chebyshev (MVUE) UCL	0.609
95% Modified-t UCL	0.331	99% Chebyshev (MVUE) UCL	0.83
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.338	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.742		
nu star	112.4		non-or-processing stage
Approximate Chi Square Value (.05)	88.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.328
Adjusted Level of Significance  Adjusted Chi Square Value	88.72	95% Jackknife UCL	0.329
Aujusieu Cili Squale Value	00.72	95% Standard Bootstrap UCL	0.32
Anderson-Darling Test Statistic	13.2	95% Standard Bootstrap UCL	0.35
		·	0.35
Anderson-Darling 5% Critical Value	0.859	95% Hall's Bootstrap UCL	
Kolmogorov-Smirnov Test Statistic	0.196	95% Percentile Bootstrap UCL	0.329
Kolmogorov-Smirnov 5% Critical Value	0.0782	95% BCA Bootstrap UCL	0.342
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.456
		97.5% Chebyshev(Mean, Sd) UCL	0.54

THE PROPERTY OF THE PROPERTY AND PROPERTY OF THE PROPERTY OF T			
Accuming Commo Distribution		99% Chebyshev(Mean, Sd) UCL	0.719
Assuming Gamma Distribution 95% Approximate Gamma UCL	0.317	99% Chebysnev(Mean, Sd) UCL	0./18
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.317		
55% Adjusted Gamma UCL	0.318		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.54
1 Otelinal Col. to Use	runn hampart da Cadon (saparet saparet	Ose 97.5% Chebyshev (Weah, 3d) OCL	0.040
	vi-m-d-plata;,,t,t,		
Result or 1/2 SDL (benzo(k)fluoranthene)			
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	92
			handli olg fragny hit berliget gan
Raw Statistics		Log-transformed Statistics	. 446744. And have-on 2 historials are 1766.
Minimum	0.0068	Minimum of Log Data	-4.984
Maximum	4.25	Maximum of Log Data	1.44
Mean	0.157	Mean of log Data	-3.763
Median	0.0082	SD of log Data	1.66
SD	0.457		
Coefficient of Variation	2.917		
Skewness	5.523		***************************************
	to bit and all and all a scales are more bits. Modificated a list and a second of the		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.372	Lilliefors Test Statistic	0.33
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
			-wanaran-manan-man
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.215	95% H-UCL	0.134
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.16
95% Adjusted-CLT UCL	0.231	97.5% Chebyshev (MVUE) UCL	0.20
95% Modified-t UCL	0.218	99% Chebyshev (MVUE) UCL	0.26
Ocean Distillation Total		Data Distribution	
Gamma Distribution Test k star (bias corrected)	0.35	Data Distribution	
Theta Star	0.35	Data do not follow a Discernable Distribution (0.05)	
nu star	116.1		**********************
Approximate Chi Square Value (.05)	92.22	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.21
Adjusted Chi Square Value	92.03	95% Jackknife UCL	0.21
Adjusted on equal value	02.00	95% Standard Bootstrap UCL	0.21
Anderson-Darling Test Statistic	26.6	95% Bootstrap-t UCL	0.24
Anderson-Darling 5% Critical Value	0.856	95% Hall's Bootstrap UCL	0.24
Kolmogorov-Smirnov Test Statistic	0.344	95% Percentile Bootstrap UCL	0.21
Kolmogorov-Smirnov 7est Statistic	0.0781	95% BCA Bootstrap UCL	0.23
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	0.23
		97.5% Chebyshev(Mean, Sd) UCL	0.37
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.50
95% Approximate Gamma UCL	0.197	So to Street, Hour, Guy Gol	
95% Adjusted Gamma UCL	0.197		···
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.378
Potential UCL to Use		Use 97.5% Chebysnev (Mean, Sd) UCL	0.3

	General Stat	istics	
Number of Valid Samples	166	Number of Unique Samples	86
Raw Statistics		Les transformed Statistics	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Ninimum Minimum	0.0015	Log-transformed Statistics  Minimum of Log Data	-6.47
Maximum	4.6	Maximum of Log Data	1.52
Mean	0.465	Mean of log Data	-1,11
Median	0.403	SD of log Data	1.00
SD	0.415	SD Of log Data	1.00
Coefficient of Variation	0.903 5.93		
Skewness	5.93		, p 10-10 10-10-10-10-10-10-10-10-10-10-10-10-10-1
F	Relevant UCL S	Statistics	
Normal Distribution Test	And 1-12 contract to the Copy of the Copy	Lognormal Distribution Test	
Lilliefors Test Statistic	0.153	Lilliefors Test Statistic	0.18
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	C. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
95% Student's-t UCL	0.519	95% H-UCL	0.64
95% UCLs (Adjusted for Skewness)	L	95% Chebyshev (MVUE) UCL	0.76
95% Adjusted-CLT UCL	0.534	97.5% Chebyshev (MVUE) UCL	0.86
95% Modified-t UCL	0.521	99% Chebyshev (MVUE) UCL	1.04
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.57	Data do not follow a Discernable Distribution (0.05)	J
Theta Star	0.296		-
nu star	521.2		
Approximate Chi Square Value (.05)	469.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.5
Adjusted Chi Square Value	468.9	95% Jackknife UCL	0.5
		95% Standard Bootstrap UCL	0.5
Anderson-Darling Test Statistic	2.638	95% Bootstrap-t UCL	0.5
Anderson-Darling 5% Critical Value	0.77	95% Hall's Bootstrap UCL	0.7
Kolmogorov-Smirnov Test Statistic	0.0955	95% Percentile Bootstrap UCL	0.5
Kolmogorov-Smirnov 5% Critical Value	0.0737	95% BCA Bootstrap UCL	0.5
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.6
		97.5% Chebyshev(Mean, Sd) UCL	0.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.7
95% Approximate Gamma UCL	0.516		
95% Adjusted Gamma UCL	0.517		
			0.60

	e e v		
Number of Valid Samples	166	Number of Unique Samples	69
Raw Statistics		Log-transformed Statistics	
Minimum	0.0049	Minimum of Log Data	-5.318
Maximum	1.02	Maximum of Log Data	0.019
Mean	0.0219	Mean of log Data	-4.728
Median	0.0057	SD of log Data	0.949
SD	0.085		0.010
Coefficient of Variation	3.873		
Skewness	10.41		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.421	Lilliefors Test Statistic	0.405
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	Innelsates at east of the same to the
Assuming Normal Distribution		Assuming Lognormal Distribution	d quantitative filip and manager out refigered by the
95% Student's-t UCL	0.0328	95% H-UCL	0.016
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.019
95% Adjusted-CLT UCL	0.0385	97.5% Chebyshev (MVUE) UCL	0.021
95% Modified-t UCL	0.0337	99% Chebyshev (MVUE) UCL	0.025
Gamma Distribution Test		Data Distribution	/*************************************
k star (bias corrected)	0.662	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0332	,	
nu star	219.7		
Approximate Chi Square Value (.05)	186.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.032
Adjusted Chi Square Value	186.1	95% Jackknife UCL	0.032
		95% Standard Bootstrap UCL	0.032
Anderson-Darling Test Statistic	33.77	95% Bootstrap-t UCL	0.064
Anderson-Darling 5% Critical Value	0.804	95% Hail's Bootstrap UCL	0.078
Kolmogorov-Smirnov Test Statistic	0.43	95% Percentile Bootstrap UCL	0.034
Kolmogorov-Smirnov 5% Critical Value	0.0757	95% BCA Bootstrap UCL	0.041
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.050
		97.5% Chebyshev(Mean, Sd) UCL	0.063
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.087
95% Approximate Gamma UCL	0.0259		***************************************
95% Adjusted Gamma UCL	0.0259		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.050
i dental del toda		Use 35 % Chebyshev (Weah, 34) UCL	0.000
esult or 1/2 SDL (boron)			
Nicosta and Classical Control	General S		1 1 1
Number of Valid Samples	166	Number of Unique Samples	114
Raw Statistics		Log-transformed Statistics	14111 proproprio ministrutor y s
Minimum	0.475	Minimum of Log Data	-0.744
Maximum	54.4	Maximum of Log Data	3.996

STATE OF THE STATE			
Mean	4.811	Mean of log Data	0.742
Median	1.475	SD of log Data	1.361
SD	6.242		
Coefficient of Variation	1.298		
Skewness	3.515		and the state of t
	Relevant UC	CL Statistics	names to the same of the same
Normal Distribution Test		Lognormal Distribution Test	ka Bara Papa ara afa sabigha ga Barbada Tha 1986a i 1886a 1
Lilliefors Test Statistic	0.244	Lilliefors Test Statistic	0.253
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	an a Printen halfy price after the data to be the artists of the a
95% Student's-t UCL	5.612	95% H-UCL	6.904
95% UCLs (Adjusted for Skewness)	3.012	95% Chebyshev (MVUE) UCL	8.515
95% Adjusted for Skewness)  95% Adjusted-CLT UCL	5.749	97.5% Chebyshev (MVUE) UCL	9.929
95% Adjusted-CET UCL	5.634	99% Chebyshev (MVUE) UCL	12.71
Gamma Distribution Test	0740	Data Distribution	
k star (bias corrected)	0.716	Data do not follow a Discernable Distribution (0.05	)
Theta Star	6.716		
nu star	237.8		
Approximate Chi Square Value (.05)	203.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0486		5.608
Adjusted Chi Square Value	202.9	95% Jackknife UCL	5.612
		95% Standard Bootstrap UCL	5.63
Anderson-Darling Test Statistic	11.51	95% Bootstrap-t UCL	5.814
Anderson-Darling 5% Critical Value	0.798	95% Hall's Bootstrap UCL	5.949
Kolmogorov-Smirnov Test Statistic	0.252	95% Percentile Bootstrap UCL	5.594
Kolmogorov-Smirnov 5% Critical Value	0.0754	·	5.756
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	6.923
		97.5% Chebyshev(Mean, Sd) UCL	7.837
Assuming Gamma Distribution	g : line l'en e d'e e pl enquegablement parent parent e e e e e e e e e e	99% Chebyshev(Mean, Sd) UCL	9.632
95% Approximate Gamma UCL	5.633		
95% Adjusted Gamma UCL	5.64		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	7.837
Result or 1/2 SDL (butyl benzyl phthalate)			
	General S	Statistics	ter and the second second second second
Number of Valid Samples	166	Number of Unique Samples	69
Raw Statistics		Log-transformed Statistics	
Minimum	0.0054	Minimum of Log Data	-5.212
Maximum	0.617	Maximum of Log Data	-0.483
Mean	0.0203	Mean of log Data	-4.633
Median	0.0064	SD of log Data	0.906
SD	0.0558		1. *- 1 <sub>1</sub>
Coefficient of Variation	2.752		n. e v sakn namena vermenne i kappa (i del delemente
Skewness	8.42		

	10270 (n) (n) (n) (n)		G S
F	Relevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.395	Lilliefors Test Statistic	0.39
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0274	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0304	97.5% Chebyshev (MVUE) UCL	0.02
95% Modified-t UCL	0.0279	99% Chebyshev (MVUE) UCL	0.02
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.797	Data do not follow a Discernable Distribution (0.05)	<b>\</b>
Theta Star	0.737	Data do not follow a Discernable Distribution (0.00)	/
nu star	264.5		the a comment of the second
Approximate Chi Square Value (.05)	204.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.02
Adjusted Level of Significance  Adjusted Chi Square Value	227.5	95% CLT OCL	0.02
Adjusted Cili Squale Value	227.5	95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	32.49		0.02
_		95% Bootstrap-t UCL	
Anderson-Darling 5% Critical Value	0.793	95% Hall's Bootstrap UCL	0.05
Kolmogorov-Smirnov Test Statistic	0.418	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.0751	95% BCA Bootstrap UCL	0.03
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.03
		97.5% Chebyshev(Mean, Sd) UCL	0.04
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.06
95% Approximate Gamma UCL	0.0235		
95% Adjusted Gamma UCL	0.0236		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.03
sult or 1/2 SDL (cadmium)			
	General Stat	istics	
Number of Valid Samples	166	Number of Unique Samples	76
Raw Statistics		Log-transformed Statistics	
Minimum	0.0085	Minimum of Log Data	-4.768
Maximum	9.71	Maximum of Log Data	2.27
Mean	0.335	Mean of log Data	-2.576
Median	0.11	SD of log Data	1.88
SD	0.859	OD OI TO DELLA	
Coefficient of Variation	2.561		4.11.13.1111111111111111111111111111111
Skewness	8.46		
	Relevant UCL S	Statistics	
Normal Distribution Test	Cotan OOL 3	Lognormal Distribution Test	
Lilliefors Test Statistic	0.352	Lilliefors Test Statistic	0.22
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06

Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.446	95% H-UCL	0.709
95% UCLs (Adjusted for Skewness)	0.440	95% Chebyshev (MVUE) UCL	0.709
95% Adjusted for Skewness)  95% Adjusted-CLT UCL	0.492	97.5% Chebyshev (MVUE) UCL	1.077
			1.077
95% Modified-t UCL	0.453	99% Chebyshev (MVUE) UCL	1.454
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.433	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.773		~ 1.4.165
nu star	143.9		
Approximate Chi Square Value (.05)	117.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.445
Adjusted Chi Square Value	117	95% Jackknife UCL	0.446
		95% Standard Bootstrap UCL	0.446
Anderson-Darling Test Statistic	8.005	95% Bootstrap-t UCL	0.55
Anderson-Darling 5% Critical Value	0.835	95% Hall's Bootstrap UCL	0.893
Kolmogorov-Smirnov Test Statistic	0.204	95% Percentile Bootstrap UCL	0.452
Kolmogorov-Smirnov 5% Critical Value	0.0772	95% BCA Bootstrap UCL	0.432
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.626
Data not Gamma Distributed at 3 % Significance Le	/ei	97.5% Chebyshev(Mean, Sd) UCL	0.020
According Comment Birkits die			
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.998
95% Approximate Gamma UCL	0.412		
95% Adjusted Gamma UCL	0.412		······································
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.751
Result or 1/2 SDL (carbazole)			
	General St	atistics	arangan kangan dan dan dan dan dan dan dan dan dan d
Number of Valid Samples	166	Number of Unique Samples	112
Raw Statistics		Log-transformed Statistics	hanners and washeld to made of differ
Minimum	0.0043	Minimum of Log Data	-5.444
	1.54	Maximum of Log Data	
		iviaxilliulii di Log Data (	0.432
Mean	0.0459		
Mean		Mean of log Data	-4.438
Mean Median	0.0052		-4.438
Mean Median SD	0.0052 0.148	Mean of log Data	-4.438
Mean Median	0.0052	Mean of log Data	-4.438
Mean Median SD Coefficient of Variation Skewness	0.0052 0.148 3.227 7.508	Mean of log Data SD of log Data	-4.438
Mean  Median  SD  Coefficient of Variation  Skewness	0.0052 0.148 3.227	Mean of log Data SD of log Data Statistics	-4.438
Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test	0.0052 0.148 3.227 7.508	Mean of log Data SD of log Data SD statistics Lognormal Distribution Test	-4.438 1.335
Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic	0.0052 0.148 3.227 7.508 Relevant UCL 0.389	Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	-4.438 1.335 0.328
Mean  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	0.0052 0.148 3.227 7.508	Mean of log Data SD of log Data SD of log Data Statistics  Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	-4.438 1.335 0.328
Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic	0.0052 0.148 3.227 7.508 Relevant UCL 0.389	Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	-4.438 1.335 0.328
Mean  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	0.0052 0.148 3.227 7.508 Relevant UCL 0.389	Mean of log Data SD of log Data SD of log Data Statistics  Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value	-4.438 1.335 0.328
Mean  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value  Data not Normal at 5% Significance Level	0.0052 0.148 3.227 7.508 Relevant UCL 0.389	Mean of log Data SD of log Data SD of log Data Statistics  Lognormal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Lognormal at 5% Significance Level	

		The second secon	
95% Adjusted-CLT UCL	0.0719	97.5% Chebyshev (MVUE) UCL	0.053
95% Modified-t UCL	0.066	99% Chebyshev (MVUE) UCL	0.068
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.468	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0981		
nu star		N. C. Maria	
Adjusted Level of Significance	127.5 0.0486	Nonparametric Statistics	0.064
Adjusted Level of Significance Adjusted Chi Square Value	127.3	95% CLT UCL 95% Jackknife UCL	0.064
Adjusted Citi Square Value	127.3	95% Standard Bootstrap UCL	0.065
Anderson-Darling Test Statistic	24.68		0.083
Anderson-Darling 19st Statistic  Anderson-Darling 5% Critical Value	0.827	95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	0.083
Kolmogorov-Smirnov Test Statistic	0.334	95% Percentile Bootstrap UCL	0.065
Kolmogorov-Smirnov 5% Critical Value	0.0769	95% BCA Bootstrap UCL	0.076
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.096
		97.5% Chebyshev(Mean, Sd) UCL	0.118
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.16
95% Approximate Gamma UCL	0.0559		
95% Adjusted Gamma UCL	0.056		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0,118
or 1/2 SDL (carbon disulfide)			
	General St		
It or 1/2 SDL (carbon disulfide)  Number of Valid Samples	General St	tatistics  Number of Unique Samples	52
	<b>5</b>		52
Number of Valid Samples Raw Statistics	<b>5</b>	Number of Unique Samples	52
Number of Valid Samples Raw Statistics	83	Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples  Raw Statistics  Minimum	2.5000E-5	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-10.6
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	2.5000E-5 0.028	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-10.6 -3.576 -8.944
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	2.5000E-5 0.028 0.0012	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-10.6 -3.576 -8.944
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	2.5000E-5 0.028 0.0012 5.1000E-5	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-10.6 -3.576 -8.944
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-10.6 -3.576 -8.944
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-10.6 -3.576
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-10.6 -3.576 -8.944
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-10.6 -3.576 -8.944 1.844
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-10.6 -3.576 -8.944 1.844
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	-10.6 -3.576 -8.944
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value	-10.6 -3.576 -8.944 1.844
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	-10.6 -3.576 -8.944 1.844 0.389 0.097
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355 Relevant UCL	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-10.6 -3.576 -8.944 1.844 0.389 0.097
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355 Relevant UCL	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-10.6 -3.576 -8.944 1.844 0.389 0.097
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355 Relevant UCL 0.387 0.0973	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-10.6 -3.576 -8.944 1.844
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355 Relevant UCL 0.387 0.0973	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SU of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-10.6 -3.576 -8.944 1.844 0.389 0.097 0.001 0.001
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	2.5000E-5 0.028 0.0012 5.1000E-5 0.0039 3.144 5.355 Relevant UCL 0.387 0.0973	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SU of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL	-10.6 -3.576 -8.944 1.844 0.389 0.097 0.001 0.001 0.001

Theta Star	0.0042		
nu star	49.81		
Approximate Chi Square Value (.05)	34.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0019
Adjusted Chi Square Value	34.38	95% Jackknife UCL	0.0019
		95% Standard Bootstrap UCL	0.0019
Anderson-Darling Test Statistic	16.26	95% Bootstrap-t UCL	0.003
Anderson-Darling 5% Critical Value	0.865	95% Hall's Bootstrap UCL	0.0053
Kolmogorov-Smirnov Test Statistic	0.427	95% Percentile Bootstrap UCL	0.0020
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.0023
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.003
		97.5% Chebyshev(Mean, Sd) UCL	0.004
Assuming Gamma Distribution	A	99% Chebyshev(Mean, Sd) UCL	0.0056
95% Approximate Gamma UCL	0.0018		
95% Adjusted Gamma UCL	0.0018		V (
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.004
Result or 1/2 SDL (chromium)			
	General S	Statistics	<u> </u>
Number of Valid Samples	166	Number of Unique Samples	144
Raw Statistics		Log-transformed Statistics	in in a commentation of the comment
Minimum	2.03	Minimum of Log Data	0.708
Maximum	136	Maximum of Log Data	4.913
Mean	13.53	Mean of log Data	2.41
Median	10.55	SD of log Data	0.582
SD	12.49		
Coefficient of Variation	0.923		
. Skewness	6.346		
F	Relevant UC	CL Statistics	dittal - passengage had did passend dan sass gov
Normal Distribution Test		Lognormal Distribution Test	podenies a pro- 61 may
Lilliefors Test Statistic	0.215	Lilliefors Test Statistic	0.0792
Lilliefors Critical Value	0.0688		0.0688
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	15.13	95% H-UCL	14.34
95% UCLs (Adjusted for Skewness)	Kranska wa wa wa kana kata kata ka wa wa wa wa wa wa ka	95% Chebyshev (MVUE) UCL	15.96
95% Adjusted-CLT UCL	15.63	97.5% Chebyshev (MVUE) UCL	17.17
95% Modified-t UCL	15.21	99% Chebyshev (MVUE) UCL	19.54
Gamma Distribution Test		Data Distribution	web declarated the second section is
k star (bias corrected)	2.677	Data do not follow a Discernable Distribution (0.05	)
Theta Star	5.053		artini for anggarini tanaksanar makroni kadi m
nu star	888.9		
Approximate Chi Square Value (.05)	820.7	Nonparametric Statistics	3(0.00)
Adjusted Level of Significance	0.0486		15.12
Adjusted Chi Square Value	820.1	95% Jackknife UCL	15.13

		DEC Charles De Marie 1101	15 10
Andoron Dadia Tan Makata	9 700	95% Standard Bootstrap UCL	15.12
Anderson-Darling Test Statistic	3.733	95% Bootstrap-t UCL	16.06
Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic	0.761 0.112	95% Hall's Bootstrap UCL	22.32 15.26
Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value	0.112	95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	15.26
Data not Gamma Distributed at 5% Significance Le		95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	17.75
Data not gamma Distributed at 5% Significance Le	vei	95% Chebysnev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	17.75
Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL	23.17
95% Approximate Gamma UCL	14.65	33 /0 Griebystiev(ivieari, 3u) UCL	23.17
95% Adjusted Gamma UCL	14.65		Pr-7-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
55 % Aujusteu Gamma OCL	14.00		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	17.75
Result or 1/2 SDL (chrysene)			
	General S	Statistics	***************************************
Number of Valid Samples	166	Number of Unique Samples	151
Raw Statistics		Log-transformed Statistics	
Minimum	0.0042		-5.47
Maximum	4.87	Maximum of Log Data	1.583
Mean	0.327	Mean of log Data	-3.244
Median	0.0291		2.065
SD	0.79		· · · · · · · · · · · · · · · · · · ·
Coefficient of Variation	2.415		
Skewness	3.488		***************************************
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.347	Lilliefors Test Statistic	0.14
Lilliefors Critical Value	0.0688		0.068
Data not Normal at 5% Significance Level	······································	Data not Lognormal at 5% Significance Level	
Approxima Name   District		According Language 1 Distriction	
Assuming Normal Distribution	0.400	Assuming Lognormal Distribution	O FEF
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.429	95% H-UCL 95% Chebyshev (MVUE) UCL	0.555 0.683
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.446	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.683
95% Adjusted-CL1 UCL 95% Modified-t UCL	0.446	97.5% Chebyshev (MVUE) UCL	1.153
55% Modilled-t OCL	0.432	33 /0 Griebyshev (NIVUE) UGL	1.103
Gamma Distribution Test	MARAGORIA GARAGORIA SALARA GARAGORIA BANDUNI AND PARA TRA PER	Data Distribution	an de strangen
k star (bias corrected)	0.319	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	1.027		
nu star	105.9		an colonia (March of a mar IS) (March of Islands
Approximate Chi Square Value (.05)	83.11	Nonparametric Statistics	a Wilder Harris Market Commence
Adjusted Level of Significance	0.0486		0.428
Adjusted Chi Square Value	82.93	95% Jackknife UCL	0.429
		95% Standard Bootstrap UCL	0.43
Anderson-Darling Test Statistic	12.67	95% Bootstrap-t UCL	0.449
Anderson-Darling 5% Critical Value	0.864	95% Hall's Bootstrap UCL	0.452
Kolmogorov-Smirnov Test Statistic	0.207	95% Percentile Bootstrap UCL	0.438
Kolmogorov-Smirnov 5% Critical Value	0.0784	95% BCA Bootstrap UCL	0.453

Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.595
Date not defining Distributed at 5% digitilicance Le		97.5% Chebyshev(Mean, Sd) UCL	0.333
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.938
95% Approximate Gamma UCL	0.417	33% Onesystem (West, 34) 302	0.500
95% Adjusted Gamma UCL	0.417		#
John Adjusted Carrilla Col	0.410		**************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.938
	N. M.		
Result or 1/2 SDL (cobalt)			
	General S		
Number of Valid Samples	166	Number of Unique Samples	146
Raw Statistics	Holis of a black file of state of the disc.	Log-transformed Statistics	***************************************
Minimum	0.0125	Minimum of Log Data	-4.382
Maximum	16	Maximum of Log Data	2.773
Mean	4.144	Mean of log Data	1.255
Median	3.965	SD of log Data	0.754
SD	2.047		
Coefficient of Variation	0.494		
Skewness	1.346		
	Relevant UC	L Statistics	****
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.0667	Lilliefors Test Statistic	0.143
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	4.407	95% H-UCL	5.234
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	5.989
95% Adjusted-CLT UCL	4.423	97.5% Chebyshev (MVUE) UCL	6.56
95% Modified-t UCL	4.41	99% Chebyshev (MVUE) UCL	7.703
Gamma Distribution Test		Data Distribution	was the second
k star (bias corrected)	3.105	Data appear Normal at 5% Significance Level	
Theta Star	1.335		
nu star	1031		
Approximate Chi Square Value (.05)	957.4	Nonparametric Statistics	4 402
Adjusted Level of Significance	0.0486	95% CLT UCL	4.406
Adjusted Chi Square Value	956.8	95% Jackknife UCL	4.407
A. Lucia De Partir de la companya de	0.643	95% Standard Bootstrap UCL	4.41
Anderson-Darling Test Statistic	2.317	95% Bootstrap-t UCL	4.422
Anderson-Darling 5% Critical Value	0.759	95% Hall's Bootstrap UCL	4.447
Kolmogorov-Smirnov Test Statistic	0.0839	·	4.392
Kolmogorov-Smirnov 5% Critical Value	0.0729	95% BCA Bootstrap UCL	4.432
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	4.837
Assuming October Distriction		97.5% Chebyshev(Mean, Sd) UCL	5.137
Assuming Gamma Distribution	4.400	99% Chebyshev(Mean, Sd) UCL	5.725
95% Approximate Gamma UCL	4.462		
95% Adjusted Gamma UCL	4.465		

Potential UCL to Use		Use 95% Student's-t UCL	4.40
ult or 1/2 SDL (copper)			
	General Sta	tistics	~# q= 1+111311.^&1
Number of Valid Samples	166	Number of Unique Samples	147
Raw Statistics		Log-transformed Statistics	and the second of the second
Minimum	0.033	Minimum of Log Data	-3.41
Maximum	487	Maximum of Log Data	6.1
Mean	24.26	Mean of log Data	2.5
Median	11.85	SD of log Data	1,2
SD	46.76	OD 01 log Duta	
Coefficient of Variation	1.928		
Skewness	6.907		
	Relevant UCL S	Nation	#
Normal Distribution Test	relevant OCL 3	Lognormal Distribution Test	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Lilliefors Test Statistic	0.302	Lilliefors Test Statistic	0.1
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.0
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	30.26	95% H-UCL	32.2
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	39.1
95% Adjusted-CLT UCL	32.31	97.5% Chebyshev (MVUE) UCL	45.0
95% Modified-t UCL	30.58	99% Chebyshev (MVUE) UCL	56.5
33 % Hodina t GGL		oon chaptare (wvol) ool	
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	0.87	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	27.89		. PI (-11-11-11-11-11-11-11-11-11-11-11-11-11
nu star	288.8		
Approximate Chi Square Value (.05)	250.4	Nonparametric Statistics	J
Adjusted Level of Significance	0.0486	95% CLT UCL	30.2
Adjusted Chi Square Value	250.1	95% Jackknife UCL	30.2
		95% Standard Bootstrap UCL	30.0
Anderson-Darling Test Statistic	7.347	95% Bootstrap-t UCL	34.3
Anderson-Darling 5% Critical Value	0.789	95% Hall's Bootstrap UCL	54.3
Kolmogorov-Smirnov Test Statistic	0.163	95% Percentile Bootstrap UCL	30.5
Kolmogorov-Smirnov 5% Critical Value	0.0749	95% BCA Bootstrap UCL	33.9
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	40.0
		97.5% Chebyshev(Mean, Sd) UCL	46.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	60.3
95% Approximate Gamma UCL	27.97		
95% Adjusted Gamma UCL	28.01		
		Use 97.5% Chebyshev (Mean, Sd) UCL	46.9

Result or 1/2 SDL (cyclohexane)

Number of Valid Samples   83   Number of Unique Samples	apanipanipanipanipanipanipanipanipanipan	General S	tatistics	
Minimum   4.450E-4   Minimum of Log Date   Maximum of Log Date   Maximum of Log Date   Maximum of Log Date   Maximum of Log Date   Modelan   0.0014   SD of log Date   SD   2.381	Number of Valid Samples	83	Number of Unique Samples	74
Minimum   4.4350E-4   Minimum of Log Date   Maximum of Log Date   Maximum of Log Date   Maximum of Log Date   Modal   0.266   Mean of log Date   Modal   SD of log Date   SD   2.381   SD of log Date   SD   Skewness   9.11   SE   Skewness   9.11   SE   Skewness   9.11   SE   Skewness   9.11   SE   Skewness   Skewness	Pau Statiation		Log transformed Statistics	
Maximum 21.7 Maximum of Log Date Mean 0.266 Man of log Date Median 0.0014 SD of log Date SD 2.381 Coefficient of Variation 8.952 Skewness 9.11  Relevant UCL Statistics  Normal Distribution Test Lilliefors Critical Value 0.0973 Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's + UCL 0.701 S9% Chebyshev (MVUE) UCl 95% Middlied-t UCL 0.701 S9% Chebyshev (MVUE) UCl 95% Middlied-t UCL 0.704 S9% Chebyshev (MVUE) UCl Gamma Distribution Test  Approximate Chi Square Value (.05) 15.08 Nonparametric Statistics  Adjusted Chi Square Value (.05) 15.08 Nonparametric Statistics  Approximate Chi Square Value (.05) 4.99 Symmon Distribution (.05) Symmon Distribution (.0		14350E-4		-7.72
Metal         0.266         Mean of log Date           SD         2.381         SD of log Date           SD         2.381         SD of log Date           Coefficient of Variation Stewness         8.952           Skewness         9.11           Relevant UCL Statistics           Normal Distribution Test         Lognormal Distribution Test           Lilliefors Critical Value Lilliefors Critical Value Data not Normal at 5% Significance Level         Data not Lognormal Distribution Test           Assuming Normal Distribution         Assuming Lognormal Distribution           Assuming Normal Distribution         Assuming Lognormal Distribution           95% Student's-t UCL Distribution         0.701           95% Chebyshev (MVUE) UCL         95% Chebyshev (MVUE) UCL           95% Adjusted-CLT UCL Distribution         0.975           95% Chebyshev (MVUE) UCL         95% Chebyshev (MVUE) UCL           Gamma Distribution Test         Data Distribution           k star (bias corrected)         0.154           Approximate Chi Square Value (05)         15.08           Adjusted Level of Significance and Lillied Chi Square Value (05)         15.08           Anderson-Darling Test Statistic Advance and Lillied Chi Square Value (05)         95% Standard Bootstrap UCl           Anderson-Darling Sc Critical Value (05)			7	3.07
Median   SD   2.381				-6.38
Relevant UCL Statistics   Skewness   9.11				1.59
Relevant UCL Statistics   Skewness   9.11				
Relevant UCL Statistics   Relevant UCL Statistics				
Normal Distribution Test  Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCl 95% Modified-t UCL 95% Modified-t UCL 0.701 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Modified-t UCL 0.744 99% Chebyshev (MVUE) UCl 95% Modified-t UCL 0.514 Pata do not follow a Discernable Distribution 0.0471 Approximate Chi Square Value Adjusted Level of Significance Adjusted Chi Square Value 14.94 95% Standard Bootstrap UCl Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Significance Level  Rolling Symptomic Significance Level  Assuming Bonormal Distribution Assuming Lognormal Distribution Assuming Gamma Distribution Assuming Gamma Distribution  Lilliefors Test Statistic Data not Lognormal at 5% Significance Level Potential UCL to Use  Use 97.5% Chebyshev (Mean, Sd) UCL Use 97.5% Chebyshev (Mean, Sd) UCL Use 97.5% Chebyshev (Mean, Sd) UCL				ni yiygida katiyany at i taysura
Normal Distribution Test  Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCl 95% Modified-t UCL 95% Modified-t UCL 0.701 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Modified-t UCL 0.744 99% Chebyshev (MVUE) UCl 95% Modified-t UCL 0.514 Pata do not follow a Discernable Distribution 0.0471 Approximate Chi Square Value Adjusted Level of Significance Adjusted Chi Square Value 14.94 95% Standard Bootstrap UCl Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Significance Level  Rolling Symptomic Significance Level  Assuming Bonormal Distribution Assuming Lognormal Distribution Assuming Gamma Distribution Assuming Gamma Distribution  Lilliefors Test Statistic Data not Lognormal at 5% Significance Level Potential UCL to Use  Use 97.5% Chebyshev (Mean, Sd) UCL Use 97.5% Chebyshev (Mean, Sd) UCL Use 97.5% Chebyshev (Mean, Sd) UCL	De	lovent LIC	I Statistica	
Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 95% Adjusted-CLT UCL 95% Modified-t UCL 0.744  Gamma Distribution Test nu star nu star Adjusted Chi Square Value Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Anderson-Darling 5% Critical Value Assuming Lilliefors Critical Value Data not Lognormal at 5% Significance Level  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution Assuming Lognormal Distribution  Assuming Lognormal Distribution  Assuming Lognormal Distribution 95% Chebyshev (MVUE) UCl 95% Chebyshev (MVUE) UCl Data do not follow a Discernable Distribution (0.  Data do not follow a Discernable Distribution (0.  Data do not follow a Discernable Distribution (0.  Theta Star 1.724 1.725 1.725 1.726 1.726 1.727 1.727 1.727 1.727 1.728 1.728 1.729 1.729 1.729 1.720 1.720 1.720 1.720 1.721 1.721 1.722 1.722 1.722 1.723 1.724 1.7		evant UC		
Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 95% Midlified-t UCL 95% Midlified-t UCL 0.744  Gamma Distribution Test nu star nustar Adjusted Level of Significance Adjusted Level of Significance Adjusted Chi Square Value Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling S% Critical Value Assuming Lilliefors Critical Value 0.0701  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution Assuming Lognormal Distribution Assuming Lognormal Distribution 95% Chebyshev (MVUE) UCl 95% Chebyshev (MVUE) UCl 95% Chebyshev (MVUE) UCl Data do not follow a Discernable Distribution (0.  Data Distribution Data Distribution Data on to follow a Discernable Distribution (0.  The 25.61  Approximate Chi Square Value (0.5) 15.08  Nonparametric Statistic Adjusted Chi Square Value 14.94 95% Standard Bootstrap UCl Anderson-Darling Test Statistic 25.11 95% Bootstrap UCl Anderson-Darling Test Statistic 25.11 95% Bootstrap UCl Kolmogorov-Smirnov Test Statistic 0.433 95% Percentile Bootstrap UCl Kolmogorov-Smirnov Test Statistic 0.433 95% Percentile Bootstrap UCl Assuming Gamma Distribution 95% Critical Value 97.5% Chebyshev(Mean, Sd) UCl 95% Approximate Gamma UCL 95% Approximate Gamma UCL 95% Adjusted Gamma UCL 95% Adjusted Gamma UCL 95% Adjusted Gamma UCL 95% Chebyshev (Mean, Sd) UCl		0.517	Lilliefors Test Statistic	0.26
Assuming Normal Distribution  95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 95% Modified-t UCL 0.744 99% Chebyshev (MVUE) UCL  Gamma Distribution Test Data Distribution  K star (bias corrected) 0.154 Data do not follow a Discernable Distribution (0.000)  Theta Star 1.724 nu star 1.724 nu star 1.724 nu star Approximate Chi Square Value (0.05) Adjusted Level of Significance 0.0471 95% CLT UC Adjusted Chi Square Value 14.94 95% Standard Bootstrap UCL Anderson-Darling Test Statistic 25.11 95% Southarp UCL Anderson-Darling 5% Critical Value 0.956 95% Hall's Bootstrap UCL Kolmogorov-Smirnov Test Statistic 0.433 95% Percentile Bootstrap UCL Kolmogorov-Smirnov Test Statistic 0.433 95% Percentile Bootstrap UCL South Spin Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 95% Approximate Gamma Distribution 95% Chebyshev(Mean, Sd) UCL 95% Adjusted Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL			Lilliefors Critical Value	0.09
95% Student's-t UCL		0.00,0	Data not Lognormal at 5% Significance Level	
95% Student's-t UCL	Assuming Normal Distribution		Assuming Lognormal Distribution	
95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Chebyshev (MVUE) UCL 95% Chebyshev (MVUE) UCL  Gamma Distribution Test Data Distribution  k star (bias corrected) 1.724 nu star 25.61 Approximate Chi Square Value (.05) Adjusted Level of Significance 0.0471 95% Standard Bootstrap UCL Adjusted Chi Square Value 14.94 95% Standard Bootstrap UCL Anderson-Darling Test Statistic 25.11 95% Bootstrap-t UCL Anderson-Darling 5% Critical Value 0.956 Standard Bootstrap UCL Kolmogorov-Smirnov Test Statistic 0.433 95% Percentile Bootstrap UCL Kolmogorov-Smirnov 5% Critical Value 0.11 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 95% Adjusted Gamma UCL 95% Adjusted Gamma UCL 95% Adjusted Gamma UCL 0.452 95% Adjusted Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL		0.701		0.0
95% Adjusted-CLT UCL 95% Modified+t UCL 0.744 99% Chebyshev (MVUE) UCL 0.744 99% Chebyshev (Mean, Sd) UCL 0.745 99% Adjusted Level of Significance 0.0471 95% Standard Bootstrap UCL 0.7456 95% Hall's Bootstrap-1 UCL 0.745 95% Bootstrap-1 UCL 0.7456 95% Hall's Bootstrap-1 UCL 0.7456 95% Hall's Bootstrap-1 UCL 0.7456 95% BCA Bootstrap-1 UCL 0.7456 95% Adjusted Gamma UCL 0.7456 95% Chebyshev (Mean, Sd) UCL 0.7456 95% Adjusted Gamma UCL 0.7456 95% Chebyshev (Mean, Sd) UCL 0.7456 95% Adjusted Gamma UCL 0.7456	Į.	0.701		0.0
Gamma Distribution Test  R star (bias corrected)  Data do not follow a Discernable Distribution  R star (bias corrected)  Data do not follow a Discernable Distribution (0.  Theta Star  1.724  nu star  25.61  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value  Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution  95% Approximate Gamma UCL  95% Adjusted Gamma UCL  0.456  Potential UCL to Use  Data do not follow a Discernable Distribution  Data do not follow a Discernable Distribution  95% CLT UC  Data do not follow a Discernable Distribution  95% CLT UC  Data do not follow a Discernable Distribution  95% Statistic  0.447  95% Bootstrap-t UCl  95% Bootstrap-t UCl  95% Bootstrap-t UCl  4.433  95% Percentile Bootstrap UCl  85% BCA Bootstrap UCl  95% Chebyshev(Mean, Sd) UCl  97.5% Chebyshev(Mean, Sd) UCl  97.5% Chebyshev(Mean, Sd) UCl  95% Approximate Gamma UCL  95% Adjusted Gamma UCL  0.456  Potential UCL to Use  Use 97.5% Chebyshev (Mean, Sd) UCl		N 975		0.0
k star (bias corrected) 0.154 Data do not follow a Discernable Distribution (0.154 Interest to 1.724 nu star 25.61  Approximate Chi Square Value (.05) 15.08 Nonparametric Statistics  Adjusted Level of Significance 0.0471 95% CLT UC  Adjusted Chi Square Value 14.94 95% Standard Bootstrap UCI  Anderson-Darling Test Statistic 25.11 95% Bootstrap UCI  Anderson-Darling 5% Critical Value 0.956 95% Hall's Bootstrap UCI  Kolmogorov-Smirnov Test Statistic 0.433 95% Percentile Bootstrap UCI  Kolmogorov-Smirnov 5% Critical Value 0.11 95% BCA Bootstrap UCI  Kolmogorov-Smirnov 5% Critical Value 0.11 95% BCA Bootstrap UCI  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCI  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCI  95% Approximate Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCI			99% Chebyshev (MVUE) UCL	0.02
k star (bias corrected) 0.154 Data do not follow a Discernable Distribution (0.  Theta Star 1.724 nu star 25.61  Approximate Chi Square Value (.05) 15.08  Adjusted Level of Significance 0.0471 95% CLT UC  Adjusted Chi Square Value 14.94 95% Standard Bootstrap UCI  Anderson-Darling Test Statistic 25.11 95% Bootstrap UCI  Anderson-Darling 5% Critical Value 0.956 95% Hall's Bootstrap UCI  Kolmogorov-Smirnov Test Statistic 0.433 95% Percentile Bootstrap UCI  Kolmogorov-Smirnov 5% Critical Value 0.11 95% BCA Bootstrap UCI  Statistic 0.433 95% Percentile Bootstrap UCI  Kolmogorov-Smirnov 5% Critical Value 0.11 95% BCA Bootstrap UCI  Assuming Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCI  97.5% Chebyshev(Mean, Sd) UCI  95% Approximate Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL				
Theta Star 1.724 nu star 25.61  Approximate Chi Square Value (.05) 15.08  Adjusted Level of Significance 0.0471  Adjusted Chi Square Value 14.94  Adjusted Chi Square Value 14.94  95% Standard Bootstrap UCI  Anderson-Darling Test Statistic 25.11  Anderson-Darling 5% Critical Value 0.956  Kolmogorov-Smirnov Test Statistic 0.433  95% Percentile Bootstrap UCI  Kolmogorov-Smirnov 5% Critical Value 0.11  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCI  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCI  95% Adjusted Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL				
Approximate Chi Square Value (.05) 15.08 Nonparametric Statistics  Adjusted Level of Significance 0.0471 95% CLT UC Adjusted Chi Square Value 14.94 95% Jackknife UC Adjusted Chi Square Value 14.94 95% Standard Bootstrap UCI Anderson-Darling Test Statistic 25.11 95% Bootstrap-t UCI Anderson-Darling 5% Critical Value 0.956 95% Hall's Bootstrap UCI Kolmogorov-Smirnov Test Statistic 0.433 95% Percentile Bootstrap UCI Kolmogorov-Smirnov 5% Critical Value 0.11 95% BCA Bootstrap UCI Statistic 0.433 95% Percentile Bootstrap UCI Assuming Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCI Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCI 97.5% Chebyshev(Mean, Sd) UCI 95% Adjusted Gamma UCL 0.456 Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCI	 		Data do not follow a Discernable Distribution (0.05	)
Approximate Chi Square Value (.05) 15.08 Nonparametric Statistics  Adjusted Level of Significance 0.0471 95% CLT UC  Adjusted Chi Square Value 14.94 95% Jackknife UC  Adjusted Chi Square Value 14.94 95% Standard Bootstrap UCI  Anderson-Darling Test Statistic 25.11 95% Bootstrap-t UCI  Anderson-Darling 5% Critical Value 0.956 95% Hall's Bootstrap UCI  Kolmogorov-Smirnov Test Statistic 0.433 95% Percentile Bootstrap UCI  Kolmogorov-Smirnov 5% Critical Value 0.11 95% BCA Bootstrap UCI  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCI  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCI  95% Approximate Gamma UCL 0.452 95% Adjusted Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL				*****
Adjusted Level of Significance O.0471  Adjusted Chi Square Value 14.94 95% Jackknife UC 95% Standard Bootstrap UCI 95% Bootstrap-t UCI Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value O.956 95% Hall's Bootstrap UCI Kolmogorov-Smirnov Test Statistic O.433 95% Percentile Bootstrap UCI Kolmogorov-Smirnov 5% Critical Value O.11  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCI Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Approximate Gamma UCL 0.452 95% Adjusted Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL			Name and the Challeston	*****************
Adjusted Chi Square Value  Adjusted Chi Square Value  14.94  95% Standard Bootstrap UCI  95% Standard Bootstrap UCI  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  0.956  95% Hall's Bootstrap UCI  Kolmogorov-Smirnov Test Statistic  0.433  95% Percentile Bootstrap UCI  Kolmogorov-Smirnov 5% Critical Value  0.11  95% BCA Bootstrap UCI  95% BCA Bootstrap UCI  95% Chebyshev(Mean, Sd) UCI  97.5% Chebyshev(Mean, Sd) UCI  97.5% Chebyshev(Mean, Sd) UCI  95% Approximate Gamma UCL  95% Adjusted Gamma UCL  0.452  95% Adjusted Gamma UCL  Potential UCL to Use  Use 97.5% Chebyshev (Mean, Sd) UCL			-	0.69
Anderson-Darling Test Statistic 25.11 95% Bootstrap UCI Anderson-Darling 5% Critical Value 0.956 95% Hall's Bootstrap UCI Kolmogorov-Smirnov Test Statistic 0.433 95% Percentile Bootstrap UCI Kolmogorov-Smirnov 5% Critical Value 0.11 95% BCA Bootstrap UCI Stata not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCI Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCI 95% Approximate Gamma UCL 0.452 95% Adjusted Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL				0.70
Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  O.956  Soft Hall's Bootstrap UCI  Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value  O.11  Data not Gamma Distributed at 5% Significance Level  Assuming Gamma Distribution  95% Approximate Gamma UCL  95% Adjusted Gamma UCL  O.452  Potential UCL to Use  Use 97.5% Chebyshev (Mean, Sd) UCL  Use 97.5% Chebyshev (Mean, Sd) UCL	Aujusted CIII Square value	14.94		0.70
Anderson-Darling 5% Critical Value 0.956 95% Hall's Bootstrap UCI Kolmogorov-Smirnov Test Statistic 0.433 95% Percentile Bootstrap UCI Kolmogorov-Smirnov 5% Critical Value 0.11 95% BCA Bootstrap UCI Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCI 97.5% Chebyshev(Mean, Sd) UCI 97.5% Chebyshev(Mean, Sd) UCI 95% Approximate Gamma UCL 0.452 95% Adjusted Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL	Andarson Darling Tost Statistic	25 11		98.46
Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value  Data not Gamma Distributed at 5% Significance Level  Potential UCL to Use  Solution  O.433  95% Percentile Bootstrap UCL  0.11  95% BCA Bootstrap UCL  95% Chebyshev(Mean, Sd) UCL  97.5% Chebyshev(Mean, Sd) UCL  97.5% Chebyshev(Mean, Sd) UCL  95% Approximate Gamma UCL  0.452  95% Adjusted Gamma UCL  0.456  Use 97.5% Chebyshev (Mean, Sd) UCL  Potential UCL to Use  Use 97.5% Chebyshev (Mean, Sd) UCL		1	·	48.5
Kolmogorov-Smirnov 5% Critical Value 0.11 95% BCA Bootstrap UCI Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCI 97.5% Chebyshev(Mean, Sd) UCI Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCI 95% Approximate Gamma UCL 0.452 95% Adjusted Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL				0.78
Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 95% Approximate Gamma UCL 0.452 95% Adjusted Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL				1.0
97.5% Chebyshev(Mean, Sd) UCL Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 95% Approximate Gamma UCL 95% Adjusted Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL			-	1.40
Assuming Gamma Distribution  99% Chebyshev(Mean, Sd) UCL  95% Approximate Gamma UCL  95% Adjusted Gamma UCL  0.456  Potential UCL to Use  Use 97.5% Chebyshev (Mean, Sd) UCL		<b>~1</b>		1.89
95% Approximate Gamma UCL 0.452 95% Adjusted Gamma UCL 0.456 Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL	Assuming Gamma Distribution		1	2.86
95% Adjusted Gamma UCL 0.456  Potential UCL to Use Use 97.5% Chebyshev (Mean, Sd) UCL		0.452		
				,
	Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	1.89
uit or 1/2 SDL (dipenz(a,n)anthracene)				
	I I/2 SUL (diberiz(a,n)antirracene)			4
General Statistics  Number of Valid Samples   166   Number of Unique Samples	Number of Valid Samples		tatistics  Number of Unique Samples	130

			11.00
Minimum	0.0042	Minimum of Log Data	-5.466
Maximum	1.64	Maximum of Log Data	0.495
Mean	0.113	Mean of log Data	-3.906
Median	0.0052		1.817
SD	0.252		
Coefficient of Variation	2.229		
Skewness	3.609		
Grewines o	] 0.000		. , <u>, , , , , , , , , , , , , , , , , ,</u>
	Relevant UC	CL Statistics	
Normal Distribution Test	·	Lognormal Distribution Test	
Lilliefors Test Statistic	0.333	Lilliefors Test Statistic	0.325
Lilliefors Critical Value	0.0688	<u>l</u>	0.068
Data not Normal at 5% Significance Level	kalalingkingkinkkinson yakunggapan yangan samba	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	PARTITION OF THE PROPERTY OF T	Assuming Lognormal Distribution	
95% Student's-t UCL	0.146	95% H-UCL	0.159
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	0.199
95% Adjusted-CLT UCL	0.151	97.5% Chebyshev (MVUE) UCL	0.242
95% Modified-t UCL	0.147	99% Chebyshev (MVUE) UCL	0.324
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.38	Data do not follow a Discernable Distribution (0.05	· · · · · · · · · · · · · · · · · · ·
Theta Star	0.298	Data do Not follow a Discernable Distribution (0.00	<i>)</i> 
			, , (, , <sub>0</sub> , , , , , , , , , , , , , , , , , , ,
nu star	126.3		
Approximate Chi Square Value (.05)	101.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	1	0.145
Adjusted Chi Square Value	101.2	95% Jackknife UCL	0.146
		95% Standard Bootstrap UCL	0.146
Anderson-Darling Test Statistic	18.02	95% Bootstrap-t UCL	0.153
Anderson-Darling 5% Critical Value	0.848	95% Hall's Bootstrap UCL	0.151
Kolmogorov-Smirnov Test Statistic	0.329	95% Percentile Bootstrap UCL	0.148
Kolmogorov-Smirnov 5% Critical Value	0.0778	95% BCA Bootstrap UCL	0.15
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.199
		97.5% Chebyshev(Mean, Sd) UCL	0.236
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.308
95% Approximate Gamma UCL	0.141		
95% Adjusted Gamma UCL	0.141		ni ina na managan (any managan)
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.236
			and an interior of the state of
Result or 1/2 SDL (dibenzofuran)			
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	77
Raw Statistics		Log-transformed Statistics	n-eo-contentendo registera en escri-
Minimum	0.0062	_	-5.083
Maximum	0.821	Maximum of Log Data	-0.197
(A) CALLINGTON	,		
Mean	0.0309		-4.369
	0.0309 0.0073	Mean of log Data	-4.369 1.051

Coefficient of Variation	2.671		
Skewness	7.081		n har dan dag 1 mah ang
CROWN BOOK	7.001		
F	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.382	Lilliefors Test Statistic	0.383
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
		rapide Philosophic de conditions de Million (Condition of Condition of	
Assuming Normal Distribution	······	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0415	95% H-UCL	0.026
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.031
95% Adjusted-CLT UCL	0.0452	97.5% Chebyshev (MVUE) UCL	0.035
95% Modified-t UCL	0.0421	99% Chebyshev (MVUE) UCL	0.043
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.672	Data do not follow a Discernable Distribution (0.05)	) 
Theta Star	0.046		
nu star	223.1		
Approximate Chi Square Value (.05)	189.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.04
Adjusted Chi Square Value	189.2	95% Jackknife UCL	0.04
		95% Standard Bootstrap UCL	0.04
Anderson-Darling Test Statistic	29.15	95% Bootstrap-t UCL	0.05
Anderson-Darling 5% Critical Value	0.803	95% Hall's Bootstrap UCL	0.088
Kolmogorov-Smirnov Test Statistic	0.402	95% Percentile Bootstrap UCL	0.042
Kolmogorov-Smirnov 5% Critical Value	0.0757	95% BCA Bootstrap UCL	0.046
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	0.058
		97.5% Chebyshev(Mean, Sd) UCL	0.070
Assuming Gamma Distribution	0.0004	99% Chebyshev(Mean, Sd) UCL	0.094
95% Approximate Gamma UCL	0.0364		
95% Adjusted Gamma UCL	0.0364		***********************
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.070
Folential OCL to OSE		Use 97.3% Chebyshev (Mean, 3u) UCL	0.070
sult or 1/2 SDL (dieldrin)			
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	96
Raw Statistics		Log-transformed Statistics	
	7.0000E-5	Minimum of Log Data	-9.567
Maximum	0.0205	Maximum of Log Data	-3.887
	9.0075E-4	Mean of log Data	-8.536
	8.5500E-5	SD of log Data	1.43
SD	0.0025	or or log Data	1.10
Coefficient of Variation	2.865		
Skewness	5.111		
Normal Distribution Test	Relevant UC		
Normal Distribution Test	and the same of th	Lognormal Distribution Test	

Lilliefors Test Statistic	0.374	Lilliefors Test Statistic	0.346
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level	0.0000	Data not Lognormal at 5% Significance Level	0.000
			· · · · · · · · · · · · · · · · · · ·
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0012	95% H-UCL	7.2952E-
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	9.0453E-
95% Adjusted-CLT UCL	0.0013	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0012	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	l office and provide the first of the first
k star (bias corrected)	0.424	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0021		
nu star	140.6		
Approximate Chi Square Value (.05)	114.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.00
Adjusted Chi Square Value	114	95% Jackknife UCL	0.00
Adjusted Cril Square Value	114		
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	27.17	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.838	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.361	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.0773	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution	Converse non-resemble sound	99% Chebyshev(Mean, Sd) UCL	0.00
95% Approximate Gamma UCL	0.0011		gan of the the than
95% Adjusted Gamma UCL	0.0011		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.002
Result or 1/2 SDL (di-n-butyl phthalate)			
Number of Valid Samples	General S	Statistics Number of Unique Samples	89
Raw Statistics		Log-transformed Statistics	
Minimum	0.0126	Minimum of Log Data	-4.378
Maximum	0.753	Maximum of Log Data	-0.284
Mean	0.0391	Mean of log Data	-3.85
Median	0.0146	SD of log Data	0.85
SD	0.0785		
Coefficient of Variation	2.007		
Skewness	5.86		
F	Relevant UC	L Statistics	
Normal Distribution Test	1	Lognormal Distribution Test	
Lilliefors Test Statistic	0.405	Lilliefors Test Statistic	0.39
Lilliefors Critical Value		Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level	0.0688	Data not Lognormal at 5% Significance Level	0.00
Assuming Normal Distribution		Assuming Lognormal Distribution	

95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0492	95% H-UCL	0.0352
	0.0492	95% Chebyshev (MVUE) UCL	0.0302
95% Adjusted-CLT UCL	0.0521	97.5% Chebyshev (MVUE) UCL	0.0453
95% Modified-t UCL	0.0497	99% Chebyshev (MVUE) UCL	0.054
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.941	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0416		
nu sta	312.3		
Approximate Chi Square Value (.05)	272.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.049
Adjusted Chi Square Value	272.1	95% Jackknife UCL	0.0492
		95% Standard Bootstrap UCL	0.049
Anderson-Darling Test Statistic	34.67	95% Bootstrap-t UCL	0.054
Anderson-Darling 5% Critical Value	0.786	95% Hall's Bootstrap UCL	0.061
Kolmogorov-Smirnov Test Statistic	0.428	95% Percentile Bootstrap UCL	. 0.049
Kolmogorov-Smirnov 5% Critical Value	0.0747	95% BCA Bootstrap UCL	0.052
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	0.065
		97.5% Chebyshev(Mean, Sd) UCL	0.077
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.099
95% Approximate Gamma UCL	0.0448		
95% Adjusted Gamma UCL	0.0449		en eren proposition de la company de la comp
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.065
t or 1/2 SDL (endosulfan sulfate)			
	General Sta		
t or 1/2 SDL (endosulfan sulfate) Number of Valid Samples		atistics  Number of Unique Samples	. 105
			. 105
Number of Valid Samples Raw Statistics		Number of Unique Samples	105
Number of Valid Samples Raw Statistics	166 1.3250E-4	Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	1.3250E-4 0.0713	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-8.929
Number of Valid Samples  Raw Statistics  Minimum  Maximum	1.3250E-4 0.0713 0.0013	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-8.929 -2.641 -8.164
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mear	1.3250E-4 0.0713 0.0013 1.5825E-4	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-8.929 -2.641
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mear  Mediar	1.3250E-4 0.0713 0.0013 1.5825E-4	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-8.929 -2.641 -8.164
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mear  Mediar	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-8.929 -2.641 -8.164
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mear  Mediar  Scalar  Coefficient of Variation  Skewness	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.929 -2.641 -8.164
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mear  Mediar  Scoefficient of Variation  Skewness	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.929 -2.641 -8.164
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mear  Mediar  Sc  Coefficient of Variation  Skewness	1.3250E-4 0.0713 0.0013 1.5825E-4 0.0061 4.659 9.667	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.929 -2.641 -8.164 1.216
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mear  Mediar  Sc  Coefficient of Variation  Skewness	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667 Relevant UCL	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test	-8.929 -2.641 -8.164 1.216
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mear  Mediar  Sc  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667 Relevant UCL	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic	-8.929 -2.641 -8.164 1.216
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mear  Mediar  Sc  Coefficient of Variation  Skewness  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667 Relevant UCL	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	-8.929 -2.641 -8.164 1.216
Number of Valid Samples  Raw Statistics  Minimum Maximum Mediar  Mediar  SE Coefficient of Variation Skewness  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667 Relevant UCL 0.423 0.0688	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLatistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-8.929 -2.641 -8.164 1.216 0.372 0.0688
Number of Valid Samples  Raw Statistics  Minimum Maximum Mear Mediar SE Coefficient of Variation Skewness  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667 Relevant UCL	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-8.929 -2.641 -8.164 1.216 0.372 0.0688
Number of Valid Samples  Raw Statistics  Minimum Maximum Mediar  Mediar  SE Coefficient of Variation Skewness  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution	1.3250E-4 0.0713 0.0013 1.5825E-4 0 0.0061 4.659 9.667 Relevant UCL 0.423 0.0688	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLatistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-8.929 -2.641 -8.164 1.216 0.372 0.0688

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.422	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	0.0031		-
nu star	140	тан месалы масанынынын алышка месанын өсө жана байын байын жана жана жана жана жана жана жана жа	
Approximate Chi Square Value (.05)	113.7	Nonparametric Statistics	······································
Adjusted Level of Significance	0.0486	95% CLT UCL	0.002
Adjusted Chi Square Value	113.5	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.002
Anderson-Darling Test Statistic	34.91	95% Bootstrap-t UCL	0.0036
Anderson-Darling 5% Critical Value	0.838	95% Hall's Bootstrap UCL	0.0048
Kolmogorov-Smirnov Test Statistic	0.398	95% Percentile Bootstrap UCL	0.002
Kolmogorov-Smirnov 5% Critical Value	0.0774	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	0.003
		97.5% Chebyshev(Mean, Sd) UCL	0.004
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.006
95% Approximate Gamma UCL	0.0016		······································
95% Adjusted Gamma UCL	0.0016		and and the second seco
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.004
sult or 1/2 SDL (endrin aldehyde)			(
	General S	tatistics	ar <b>y</b> taaries in service states
Number of Valid Samples	166	Number of Unique Samples	117
Raw Statistics	N. Marifed of data to agree 1	Log-transformed Statistics	
Minimum	1.6800E-4	Minimum of Log Data	-8.692
Maximum	0.0738	Maximum of Log Data	-2.606
Mean	0.0019	Mean of log Data	-7.839
Median	2.0050E-4	SD of log Data	1.344
SD	0.0073		
Coefficient of Variation	3.692		
Skewness	7.123		
	Relevant UCL		
Normal Distribution Test		Lognormal Distribution Test	A
Lilliefors Test Statistic	0.402	Lilliefors Test Statistic	0.383
Lilliefors Critical Value  Data not Normal at 5% Significance Level	0.0688	Lilliefors Critical Value Data not Lognormal at 5% Significance Level	0.068
Data not Normal at 5% Significance Level	,	Data not Lognormal at 5% Significance Level	h for 150 of 250 to the first of 250 or 100
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0029	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0032	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0029	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	
	0.402		)
	į.	24 40 10t 10tion a prosentation plantation (0.00)	<i></i>
Thata Stari	[][][]		
Theta Star	0.0049 133.4		\$0000000000000000000000000000000000000
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected)	0.0032 0.0029 0.402	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	

Adjusted Level of Significance	0.0486	95% CLT UCL	0.0029
Adjusted Chi Square Value	107.5	95% Jackknife UCL	0.0029
Adjusted offi oqualication value.	107.0	95% Standard Bootstrap UCL	0.0029
Anderson-Darling Test Statistic	33.76	95% Bootstrap-t UCL	0.0036
Anderson-Darling 5% Critical Value	0.843	95% Hall's Bootstrap UCL	0.0062
Kolmogorov-Smirnov Test Statistic	0.409	95% Percentile Bootstrap UCL	0.003
Kolmogorov-Smirnov 5% Critical Value	0.409		0.003
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	0.0032
Data not dannia Distributed at 3% dignificance Le	1	97.5% Chebyshev(Mean, Sd) UCL	0.005
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
_	0.0024		0.0070
95% Approximate Gamma UCL			
95% Adjusted Gamma UCL	0.0024		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.005
Result or 1/2 SDL (endrin ketone)			
	General	Statictice	
Number of Valid Samples	166	Number of Unique Samples	121
	L		Section 1991 Control of the section
Raw Statistics	g-100, 20100100	Log-transformed Statistics	
Minimum	2.1300E-4	Minimum of Log Data	-8.454
Maximum	0.0241	Maximum of Log Data	-3.726
Mean	0.0013	Mean of log Data	-7.664
Median	2.5250E-4	SD of log Data	1.185
SD	0.0032		
Coefficient of Variation	2.337		
Skewness	4.403		
1	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.362	Lilliefors Test Statistic	0.376
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.0688
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Named Distribution	A MATERIA SIA AND AND AND AND AND AND AND AND AND AN	Assuming Lognormal Distribution	
Assuming Normal Distribution 95% Student's-t UCL	0.0017		0.001
	0.001/	95% H-UCL 95% Chebyshev (MVUE) UCL	0.001
95% UCLs (Adjusted for Skewness)	0.0040		!
95% Adjusted-CLT UCL	0.0018		0.001
95% Modified-t UCL	0.0018	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.571	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0024		***************************************
nu star	189.7	N	
Approximate Chi Square Value (.05)	158.8	Nonparametric Statistics	0.001
Adjusted Level of Significance	0.0486		0.001
Adjusted Chi Square Value	158.6	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	30.37	95% Bootstrap-t UCL	0.001
Anderson-Darling 5% Critical Value	0.813	95% Hall's Bootstrap UCL	0.001

Control Manager Control Contro	d strangenty	Control Control Control and Control and Control and Control	
	0.000	AFRICA Description	0.001
Kolmogorov-Smirnov Test Statistic	0.398	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.0762	95% BCA Bootstrap UCL	0.0018
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0024
According Common Distribution		97.5% Chebyshev (Mean, Sd) UCL	0.0029
Assuming Gamma Distribution	0.0040	99% Chebyshev(Mean, Sd) UCL	0.003
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0016 0.0016		
95% Adjusted Gamma OCL	0.0010		ononmunantrantrantrar
Potential UCL to Use	Marie e programa de como a constituente de con	Use 97.5% Chebyshev (Mean, Sd) UCL	0.002
Result or 1/2 SDL (ethylbenzene)			
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	74
Raw Statistics	~	Log-transformed Statistics	
etti etti tili talantai aitai talan muun muun muun kali uun manna aitai manna muun muun kali talan	7.7000E-5	Minimum of Log Data	-9.472
Maximum	0.105	Maximum of Log Data	-2.254
Mean	0.0038	Mean of log Data	-7.113
Median	0.0016	SD of log Data	1.759
SD	0.0129		
Coefficient of Variation	3.35		··spin(40)
Skewness	6.622		
F	Relevant UC		
Normal Distribution Test	Anne-minimum	Lognormal Distribution Test	- MAN AND AND THE PROPERTY OF THE PARK AND
Lilliefors Test Statistic	0.392	Lilliefors Test Statistic	0.2
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	nameten nameten en e
Assuming Normal Distribution	the principles of the second s	Assuming Lognormal Distribution	(d, th. s, fiber),
95% Student's-t UCL	0.0062	95% H-UCL	0.006
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.008
95% Adjusted-CLT UCL	0.0072	97.5% Chebyshev (MVUE) UCL	0.010
95% Modified-t UCL	0.0063	99% Chebyshev (MVUE) UCL	0.014
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.413	Data do not follow a Discernable Distribution (0.0)	<u></u>
Theta Star	0.0093	Data do not follow a Discentable Distribution (c.o.	"
nu star	68.55		
Approximate Chi Square Value (.05)	50.49	Nonparametric Statistics	Periodicina service period
Adjusted Level of Significance	0.0471	95% CLT UCL	0.006
Adjusted Chi Square Value	50.22	95% Jackknife UCL	0.006
Aujusteu Oili Squale Value	30.22	95% Standard Bootstrap UCL	0.006
Anderson-Darling Test Statistic	5.613	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.009
Anderson-Darling 1 est Statistic  Anderson-Darling 5% Critical Value		95% Bootstrap UCL 95% Hall's Bootstrap UCL	0.009
_	0.838	-	0.008
Kolmogorov-Smirnov Test Statistic	0.196	95% Percentile Bootstrap UCL	0.000
Kolmogorov-Smirnov 5% Critical Value	0.105	95% BCA Bootstrap UCL	
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.012
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.017

95% Approximate Gamma UCL	0.0052		
95% Adjusted Gamma UCL	0.0052		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.0127
Result or 1/2 SDL (fluoranthene)			
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	131
Raw Statistics		Log-transformed Statistics	F 004
Minimum	0.0053		-5.231
Maximum	. 14.2	Maximum of Log Data	2.653
Mean Median	0.594 0.0409	Mean of log Data	-2.889 2.179
Wedian SD	1.674	SD of log Data	2.179
Coefficient of Variation	2.82		
Skewness	5.022		
Normal Distribution Test	Relevant UC	Lognormal Distribution Test	
Lilliefors Test Statistic	0.363	Lilliefors Test Statistic	0.148
Lilliefors Critical Value	0.0688		0.0688
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.809	95% H-UCL	1.062
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.289
95% Adjusted-CLT UCL	0.861	97.5% Chebyshev (MVUE) UCL	1.6
95% Modified-t UCL	0.817	99% Chebyshev (MVUE) UCL	2.21
Gamma Distribution Test	<b></b>	Data Distribution	
k star (bias corrected)	0.291	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	2.039		
nu star	96.67		
Approximate Chi Square Value (.05)	74.99	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0486	95% CLT UCL	0.807
Adjusted Chi Square Value	74.82	. 95% Jackknife UCL	0.809
		95% Standard Bootstrap UCL	0.811
Anderson-Darling Test Statistic	13.04	95% Bootstrap-t UCL	0.906
Anderson-Darling 5% Critical Value	0.872	95% Hall's Bootstrap UCL	0.935
Kolmogorov-Smirnov Test Statistic	0.211	95% Percentile Bootstrap UCL	0.823
Kolmogorov-Smirnov 5% Critical Value	0.0788	•	0.89
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	1.16
		97.5% Chebyshev(Mean, Sd) UCL	1.405
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.886
95% Approximate Gamma UCL	0.765		***************************************
95% Adjusted Gamma UCL	0.767		ernanne ernannet saverblår teknandla
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.886

esult or 1/2 SDL (fluorene)	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM		
	General Sta	atistics	ALL THE REAL PROPERTY.
Number of Valid Samples	166	Number of Unique Samples	120
Raw Statistics		Log-transformed Statistics	une managem adapat
Minimum	0.0043	Minimum of Log Data	-5.449
Maximum	1.11	Maximum of Log Data	0.104
Mean	0.0442	Mean of log Data	-4.461
Median	0.0051	SD of log Data	1.337
SD	0.129		A PARTICIPATION OF THE PROPERTY OF THE PROPERT
Coefficient of Variation	2.919		
Skewness	5.759		
R	televant UCL	Statistics	20 <del>11-1-1</del> -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Normal Distribution Test	***************************************	Lognormal Distribution Test	Market and Constitution with the second
Lilliefors Test Statistic	0.379	Lilliefors Test Statistic	0.34
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0607	95% H-UCL	0.036
95% UCLs (Adjusted for Skewness)	ettetajethske et hetersen, emensen en ee	95% Chebyshev (MVUE) UCL	0.044
95% Adjusted-CLT UCL	0.0654	97.5% Chebyshev (MVUE) UCL	0.052
95% Modified-t UCL	0.0615	99% Chebyshev (MVUE) UCL	0.066
Gamma Distribution Test	***************************************	Data Distribution	tivities and the second section will be
k star (bias corrected)	0.472	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0935		
nu star	156.9		***************************************
Approximate Chi Square Value (.05)	128.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.060
Adjusted Chi Square Value	128.7	95% Jackknife UCL	0.060
		95% Standard Bootstrap UCL	0.060
Anderson-Darling Test Statistic	25.32	95% Bootstrap-t UCL	0.069
Anderson-Darling 5% Critical Value	0.826	95% Hall's Bootstrap UCL	0.068
Kolmogorov-Smirnov Test Statistic	0.349	95% Percentile Bootstrap UCL	0.06
Kolmogorov-Smirnov 5% Critical Value	0.0768	95% BCA Bootstrap UCL	0.06
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.087
		97.5% Chebyshev(Mean, Sd) UCL	0.107
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.14
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0538 0.0539		manistan e su sus billione el Mi
	***************************************		
Potential UCL to Use	***************************************	Use 97.5% Chebyshev (Mean, Sd) UCL	0.10
	попадавированического попадавич		PRODUCED - SQUARE, A SQUAR
sult or 1/2 SDL (gamma-chlordane)			
	General Sta	atistics	
Number of Valid Samples	166	Number of Unique Samples	95

			<b>N</b> :3.5
Raw Statistics		Log-transformed Statistics	
Minimum	1.1000E-4	Minimum of Log Data	-9.115
Maximum	0.0156	Maximum of Log Data	-4.16
Mean	6.9043E-4	Mean of log Data	-8.462
Median	1.3050E-4	SD of log Data	1.117
SD	0.0020	отничения сторовать выправления на нашения по вы на простоя на прического на прического на принцения на причес Прического на причения выправления на прического на прического на прического на прического на прического на при	
Coefficient of Variation	3.004		
Skewness	5.46		
	Relevant UC	L Statistics	11.107.106.1 <sub>6</sub> 01.136.217771 -M.1177711 -M.1
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.403	Lilliefors Test Statistic	0.401
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.0688
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	J
Assuming Normal Distribution	1	Assuming Lognormal Distribution	ara and an area and an area area.
95% Student's-t UCL	9.5669E-4	95% H-UCL	4.8009E-4
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	5.7780E-4
95% Adjusted-CLT UCL	0.0010	97.5% Chebyshev (MVUE) UCL	6.5819E-4
95% Modified-t UCL	9.6806E-4	99% Chebyshev (MVUE) UCL	8.1611E-4
Gamma Distribution Test		Data Distribution	ar, professorere, evit, elektrick (Detail)
k star (bias corrected)	0.526	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0013		
nu star	174.6		
Approximate Chi Square Value (.05)	145	Nonparametric Statistics	and the second s
Adjusted Level of Significance	0.0486	95% CLT UCL	9 5520F-4
Adjusted Chi Square Value	144.8	95% Jackknife UCL	
7 Agustou Oni Oquaro Valuo	177.0		9.5122E-4
Anderson-Darling Test Statistic	37.97	95% Bootstrap-t UCL	0.0011
Anderson-Darling 5% Critical Value	0.817	95% Hall's Bootstrap UCL	0.0010
Kolmogorov-Smirnov Test Statistic	0.436	·	9.6795E-4
Kolmogorov-Smirnov 5% Critical Value	0.436	95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	0.0010
<del>-</del> .	1 1	·	<u> </u>
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	0.0013
		97.5% Chebyshev(Mean, Sd) UCL	0.0017
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0022
95% Approximate Gamma UCL	8.3116E-4		
95% Adjusted Gamma UCL	8.3251E-4		
Potential UCL to Use	***************************************	Use 97.5% Chebyshev (Mean, Sd) UCL	0.0017
sult or 1/2 SDL (heptachlorobiphenyl (170))			
	General S	tatistics	
Number of Valid Samples	27	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	
	5.4000E-5	Minimum of Log Data	-9.827
	1		-4.492
Maximum	0.0112	Maximum of Log Data	-4.492

	2. 2. 2. 2. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.		
	6.0500E-5	SD of log Data	1.109
SD	0.0021		
Coefficient of Variation	4.214		
Skewness	5.179		
	Relevant UC	L Statistics	naga marajawa ayo na tabbana na Malara
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.22	Shapiro Wilk Test Statistic	0.497
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level	<u></u>	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0012		3.0157E-4
	0.0012		3.4359E-4
95% UCLs (Adjusted for Skewness)	0.0010		4.2093E-4
95% Adjusted-CLT UCL	0.0016	· ' ' ' '	
95% Modified-t UCL	0.0012	99% Chebyshev (MVUE) UCL	5.7284E-4
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.37	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0013		
nu star	19.96		
Approximate Chi Square Value (.05)	10.82	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.001
Adjusted Chi Square Value	10.39	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	7.791	95% Bootstrap-t UCL	0.021
Anderson-Darling 5% Critical Value	0.833	95% Hall's Bootstrap UCL	0.012
Kolmogorov-Smirnov Test Statistic	0.427	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.181	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.002
	I	97.5% Chebyshev(Mean, Sd) UCL	0.003
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.004
_	9.3640E-4		
	9.7515E-4		
oora rajustee dariina oo i	0.70102 4		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.004
Result or 1/2 SDL (heptachlorobiphenyl (180))			
	General S	tatietice	angronny merandesiale
Number of Valid Samples	27	Number of Unique Samples	21
D 01-11 11		1	
Raw Statistics	E 75000 5	Log-transformed Statistics	-9.764
and the factor of the first of the factor of	5.7500E-5	Minimum of Log Data	
Maximum	0.0183	Maximum of Log Data	-4.001
	8.0478E-4	Mean of log Data	-9.025
	6.6000E-5	SD of log Data	1.215
SD	0.0035		
Coefficient of Variation	4.347		
Skewness	5.186		

	Relevant UC	CL Statistics	1 EN
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.219	Shapiro Wilk Test Statistic	0.6
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0019	95% H-UCL	4.8616E-4
95% UCLs (Adjusted for Skewness)	1	95% Chebyshev (MVUE) UCL	5.3266E-4
95% Adjusted-CLT UCL	0.0026	97.5% Chebyshev (MVUE) UCL	6.5892E-4
95% Modified-t UCL	0.0020		9.0693E-4
Gamma Distribution Test		Data Distribution	Pris 18 1 18 18 18 18 18 18 18 18 18 18 18 1
	0.220		E\
k star (bias corrected)	0.339	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0023		
nu star	18.3		quantitative bree
Approximate Chi Square Value (.05)	9.605	Nonparametric Statistics	·
Adjusted Level of Significance	0.0401	95% CLT UCL	0.0019
Adjusted Chi Square Value	9.203	95% Jackknife UCL	0.0019
TOTO ENTRE PROTECTION OF THE P		95% Standard Bootstrap UCL	0.0018
Anderson-Darling Test Statistic	6.864	95% Bootstrap-t UCL	0.0297
Anderson-Darling 5% Critical Value	0.841	95% Hall's Bootstrap UCL	0.0148
Kolmogorov-Smirnov Test Statistic	0.394	95% Percentile Bootstrap UCL	0.0021
Kolmogorov-Smirnov 5% Critical Value	0.181	95% BCA Bootstrap UCL	0.0028
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0037
		97.5% Chebyshev(Mean, Sd) UCL	0.0050
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0075
95% Approximate Gamma UCL	0.0015		
95% Adjusted Gamma UCL	0.0016		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0075
Result or 1/2 SDL (heptachlorobiphenyl (183))			
	General S		
Number of Valid Samples	27	Number of Unique Samples	17
· Raw Statistics		Log-transformed Statistics	
Minimum	6.6000E-5	Minimum of Log Data	-9.626
Maximum	0.0058	Maximum of Log Data	-5.148
Mean	3.0648E-4	Mean of log Data	-9.286
Median	7.3500E-5	SD of log Data	0.928
SD	0.0011		
Coefficient of Variation	3.607		
Skewness	5.118		-
F	Relevant UC	L Statistics	· · · · · · · · · · · · · · · · · · ·
Normal Distribution Test	***************************************	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.228	Shapiro Wilk Test Statistic	0.339
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	6.6932E-4	95% H-UCL	2.2061E~
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2.6206E-
95% Adjusted-CLT UCL	8.8028E-4	97.5% Chebyshev (MVUE) UCL	3.1504E-
95% Modified-t UCL	7.0424E-4	99% Chebyshev (MVUE) UCL	4.1912E-
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.493	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	6.2145E-4		V-440-(1-10-10-10-10-10-10-10-10-10-10-10-10-10
nu star	26.63		
Approximate Chi Square Value (.05)	15.87	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	6.5639E-
Adjusted Chi Square Value	15.33	95% Jackknife UCL	6.6932E-
	<u> </u>	95% Standard Bootstrap UCL	6.4808E-
Anderson-Darling Test Statistic	9.122	95% Bootstrap-t UCL	0.08
Anderson-Darling 5% Critical Value	0.805	95% Hall's Bootstrap UCL	0.01
Kolmogorov-Smirnov Test Statistic	0.544	95% Percentile Bootstrap UCL	7.3128E-
Kolmogorov-Smirnov 5% Critical Value	0.178		9.6457E-
Data not Gamma Distributed at 5% Significance Le	I I I I	95% Chebyshev(Mean, Sd) UCL	0.00
Data Not Gamma Distributed at 578 Orginicance Le	1	97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.002
_	5.1442E-4	99% Chebyshev (Mean, Su) DCL	0,002
95% Approximate Gamma UCL			
95% Adjusted Gamma UCL	5.3225E-4		***************************************
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.001
esult or 1/2 SDL (heptachlorobiphenyl (187))	General Sta	atistics	
Number of Valid Samples	27	Number of Unique Samples	
		rumber of ornique campies	19
Dow Statistics			19
Raw Statistics	E 1000E E	Log-transformed Statistics	
Minimum	5.1000E-5	Log-transformed Statistics Minimum of Log Data	-9.884
Minimum Maximum	0.0134	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-9.884 -4.313
Minimum Maximum Mean	0.0134 5.9919E-4	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.884 -4.313 -9.225
Minimum Maximum Mean Median	0.0134 5.9919E-4 5.8000E-5	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-9.884 -4.313 -9.225
Minimum Maximum Mean Median SD	0.0134 5.9919E-4 5.8000E-5 0.0025	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.884 -4.313 -9.225
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.884 -4.313 -9.225
Minimum Maximum Mean Median SD	0.0134 5.9919E-4 5.8000E-5 0.0025	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.884 -4.313 -9.225
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics	-9.884 -4.313 -9.225
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-9.884 -4.313 -9.225 1.173
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-9.884 -4.313 -9.225 1.173
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-9.884 -4.313 -9.225 1.173
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-9.884 -4.313 -9.225 1.173
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-9.884 -4.313 -9.225 1.173
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-9.884 -4.313 -9.225 1.173 0.574 0.923
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0134 5.9919E-4 5.8000E-5 0.0025 4.273 5.183 Relevant UCL 3 0.221 0.923	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-9.884 -4.313 -9.225 1.173 0.574 0.923

95% Modified-t UCL	0.0015	99% Chebyshev (MVUE) UCL	6 8716E-4
3370 Woulder Cock	0.0013	33 % Citebysiles (WVOL) OCL	0.0710L~
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.353	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0017		
nu star	19.06		
Approximate Chi Square Value (.05)	10.16	Nonparametric Statistics	na garling niver sign galer finds of a glindgijk finde gart
Adjusted Level of Significance	0.0401	95% CLT UCL	0.001
Adjusted Chi Square Value	9.748	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	7.089	95% Bootstrap-t UCL	0.020
Anderson-Darling 5% Critical Value	0.837	95% Hall's Bootstrap UCL	0.011
Kolmogorov-Smirnov Test Statistic	0,368	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.181	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.003
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.005
95% Approximate Gamma UCL	0.0011		
95% Adjusted Gamma UCL	0.0011		
Potential UCL to Use	4	Use 99% Chebyshev (Mean, Sd) UCL	0.005
esult or 1/2 SDL (hexachlorobiphenyl (128))	General Sta	atistics	
Number of Valid Samples	General Sta	atistics  Number of Unique Samples	21
Number of Valid Samples		Number of Unique Samples	21
Number of Valid Samples Raw Statistics	27	Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples Raw Statistics Minimum	27 8.5500E-5	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-9.367
Number of Valid Samples  Raw Statistics  Minimum  Maximum	8.5500E-5 0.0083	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-9.367 -4.784
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	8.5500E-5 0.0083 4.5378E-4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.367 -4.784 -8.867
Raw Statistics  Minimum  Maximum  Mean  Median	8.5500E-5 0.0083 4.5378E-4 9.6000E-5	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-9.367 -4.784 -8.867
Raw Statistics  Minimum  Maximum  Mean  Median  . SD	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.367 -4.784 -8.867
Raw Statistics  Minimum  Maximum  Mean  Median  . SD  Coefficient of Variation	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.367 -4.784 -8.867
Raw Statistics  Minimum  Maximum  Mean  Median  . SD	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.367 -4.784
Raw Statistics  Minimum  Maximum  Mean  Median  . SD  Coefficient of Variation Skewness	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-9.367 -4.784 -8.867
Raw Statistics  Minimum  Maximum  Mean  Median  . SD  Coefficient of Variation Skewness  R  Normal Distribution Test	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-9.367 -4.784 -8.867 0.978
Raw Statistics  Minimum  Maximum  Mean  Median  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-9.367 -4.784 -8.867 0.978
Raw Statistics  Minimum  Maximum  Mean  Median  . SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-9.367 -4.784 -8.867 0.978
Raw Statistics  Minimum  Maximum  Mean  Median  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-9.367 -4.784 -8.867
Raw Statistics  Minimum  Maximum  Mean  Median  . SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-9.367 -4.784 -8.867 0.978
Raw Statistics  Minimum  Maximum  Mean  Median  . SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL 0.243 0.923	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-9.367 -4.784 -8.867 0.978 0.519
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  . SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-9.367 -4.784 -8.867 0.978 0.519 0.923
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  . SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL 0.243 0.923	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.367 -4.784 -8.867 0.978 0.519 0.923 3.6365E-4
Raw Statistics  Minimum  Maximum  Mean  Median  . SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL 0.243 0.923 9.7482E-4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.367 -4.784 -8.867 0.978 0.519 0.923 3.6365E-4 4.2833E-4 5.1775E-4
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  . SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL 0.243 0.923	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.367 -4.784 -8.867 0.978 0.519 0.923 3.6365E-4 4.2833E-4 5.1775E-4
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  . SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL 0.243 0.923 9.7482E-4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.367 -4.784 -8.867 0.978 0.519 0.923 3.6365E-4 4.2833E-4 5.1775E-4
Raw Statistics  Minimum  Maximum  Mean  Median  . SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	8.5500E-5 0.0083 4.5378E-4 9.6000E-5 0.0015 3.498 5.123 Relevant UCL 0.243 0.923 9.7482E-4	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL	-9.367 -4.784 -8.867 0.978 0.923 0.923 3.6365E-4 4.2833E-4 5.1775E-4 6.9340E-4

nu star	27.12	has the control of th	
Approximate Chi Square Value (.05)	16.25	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	9.5626E-4
Adjusted Chi Square Value	15.71	95% Jackknife UCL	9.7482E-4
		95% Standard Bootstrap UCL	9.3325E-4
Anderson-Darling Test Statistic	7.104	95% Bootstrap-t UCL	0.0092
Anderson-Darling 5% Critical Value	0.804	95% Hall's Bootstrap UCL	0.005
Kolmogorov-Smirnov Test Statistic	0.424	95% Percentile Bootstrap UCL	0.0010
Kolmogorov-Smirnov 5% Critical Value	0.177	95% BCA Bootstrap UCL	0.001
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.001
		97.5% Chebyshev(Mean, Sd) UCL	0.002
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
95% Approximate Gamma UCL	7.5756E-4		
95% Adjusted Gamma UCL	7.8353E-4		
a annument of the state of the	7.000B	an manangan kantan kant	
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.001
esult or 1/2 SDL (hexachlorobiphenyl (138))			
	General S	Statistics	
Number of Valid Samples	27	Number of Unique Samples	25
Trained of Valid Cumples		Aumboi oi oinquo oumpioo	
Raw Statistics		Log-transformed Statistics	o Newson and all the blatter of the blatter
	1.2950E-4	Minimum of Log Data	-8.952
етако жит помности, степом ратоттиритетивностичность дост и муностиристичностранения	0.0432		-3.142
Maximum		Maximum of Log Data	
Mean	0.0019	Mean of log Data	-8.156
Median	1.4700E-4	SD of log Data	1.28
SD	0.0082		
Coefficient of Variation	4.258		
Skewness	5.179		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.226	Shapiro Wilk Test Statistic	0.632
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	III-MEMIKINEKIINE IIIIIIIIIIIII	Assuming Lognormal Distribution	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
95% Student's-t UCL	0.0046		0.001
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0,0062	97.5% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CE1 OCE	0.0002		0.001
33 % Modified-t OCL	0,0049	33 % Chebyshev (MVCE) GCE	0.002
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.337	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0057		araill kaannastenadoree et historiajiigus
nu star	18.22		
Approximate Chi Square Value (.05)	9.547	Nonparametric Statistics	
		·	·
Adjusted Level of Significance	0.0401	95% CLT UCL	0.004
	0.0401 9.146	95% CLT UCL 95% Jackknife UCL	0.004

Anderson-Darling Test Statistic	6.365	95% Bootstrap-t UCL	0.050
Anderson-Darling 5% Critical Value	0.841	95% Hall's Bootstrap UCL	0.030
Kolmogorov-Smirnov Test Statistic	0.346	95% Percentile Bootstrap UCL	0.005
Kolmogorov-Smirnov 5% Critical Value	0.181	95% BCA Bootstrap UCL	0.006
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.008
		97.5% Chebyshev(Mean, Sd) UCL	0.011
Assuming Gamma Distribution	***************************************	99% Chebyshev(Mean, Sd) UCL	0.017
95% Approximate Gamma UCL	0.0037		
95% Adjusted Gamma UCL	0.0038		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.017
esult or 1/2 SDL (hexachlorobiphenyl (153))			
	General St	atistics	
Number of Valid Samples	27	Number of Unique Samples	20
Raw Statistics	-	Log-transformed Statistics	
Minimum	6.2500E-5	Minimum of Log Data	-9.68
Maximum	0.0501	Maximum of Log Data	-2.994
Mean	0.0026	Mean of log Data	-8.616
Median	7.0500E-5	SD of log Data	1.720
SD	0.0099		
Coefficient of Variation	3.801		
Skewness	4.646		agadanahagi (galayana) anaar araa (araa) a
	elevant UCL	Statistics	********************************
Normal Distribution Test	ielevalit OCL	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.287	Shapiro Wilk Test Statistic	0.653
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0058	95% H-UCL	0.002
95% UCLs (Adjusted for Skewness)	0.0000	95% Chebyshev (MVUE) UCL	0.002
95% Adjusted-CLT UCL	0.0075	97.5% Chebyshev (MVUE) UCL	0.002
95% Adjusted-CL1 OCL	0.0075	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.259	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.01		- 14- 106: Marriage - 14-16: 1-18-16
nu star	14.01		
Approximate Chi Square Value (.05)	6.579	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.00
Adjusted Chi Square Value	6.254	95% Jackknife UCL	0.00
	-	95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	6.082	95% Bootstrap-t UCL	0.08
Anderson-Darling 5% Critical Value	0.868	95% Hall's Bootstrap UCL	0.05
Kolmogorov-Smirnov Test Statistic	0.36	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.184	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.01

			1 100
		97.5% Chebyshev(Mean, Sd) UCL	0.0145
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0216
95% Approximate Gamma UCL	0.0055		
95% Adjusted Gamma UCL	0.0058		
			a managara ana aga a aga at ang
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0216
tesult or 1/2 SDL (hexachlorobiphenyl (156))			only to realize the state of th
· · · · · · · · · · · · · · · · · · ·	General	Natiolog	
Number of Valid Samples	27	Number of Unique Samples	18
Raw Statistics	William Personal and an adams	Log-transformed Statistics	
	6.6000E-5	Minimum of Log Data	-9.626
Maximum	0.0061	Maximum of Log Data	-5.095
	3.2159E-4	Mean of log Data	-9.254
	7.3500E-5	SD of log Data	0.942
SD			
Coefficient of Variation	3.626		
Skewness	5.125		
	D-1	N. Clastation	
Normal Distribution Test	Relevant UC	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.23	Shapiro Wilk Test Statistic	0.382
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level	1	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	\$12000000000000000000000000000000000000	Assuming Lognormal Distribution	·
95% Student's-t UCL	7.0436E-4	95% H-UCL	2.3267E-4
95% UCLs (Adjusted for Skewness)	·	95% Chebyshev (MVUE) UCL	2.7581E-4
	9.2722E-4		3.3207E-4
95% Modified-t UCL	7.4124E-4	99% Chebyshev (MVUE) UCL	4.4259E-4
Gamma Distribution Test		Data Distribution	- Language Control of the Control of
k star (bias corrected)	0.488	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	6.5941E-4		
nu star	26.34		
Approximate Chi Square Value (.05)	15.64	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0401	95% CLT UCL	6.9072E-4
Adjusted Chi Square Value	15.11	95% Jackknife UCL	7.0436E-4
		95% Standard Bootstrap UCL	6.9254E-4
Anderson-Darling Test Statistic	8.678	95% Bootstrap-t UCL	0.017
Anderson-Darling 5% Critical Value	0.805	95% Hall's Bootstrap UCL	0.016
Kolmogorov-Smirnov Test Statistic	0.512	95% Percentile Bootstrap UCL	7.5100E-4
Kolmogorov-Smirnov 5% Critical Value	0.178	95% BCA Bootstrap UCL	9.9581E-4
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.001
		97.5% Chebyshev(Mean, Sd) UCL	0.001
Assuming Gamma Distribution	J	99% Chebyshev(Mean, Sd) UCL	0.002
95% Approximate Gamma UCL	5.4159E-4		and the second s
95% Adjusted Gamma UCL	5.6048E-4		Complete Control Contr

sult or 1/2 SDL (indeno(1,2,3-cd)pyrene)	. Li t-alfa - Mark'al-alfatti i i i alfa a thagann mhaille a le		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
ult of 172 SDL (Indeno(1,2,3-ca)pyrene)			Carrier and the second surprise
	General Stat		
Number of Valid Samples	166	Number of Unique Samples	136
Raw Statistics		Log-transformed Statistics	
Minimum	0.0071	Minimum of Log Data	-4.948
Maximum	6.49	Maximum of Log Data	1.87
Mean	0.368	Mean of log Data	-2.635
Median	0.0845	SD of log Data	1.88
SD	0.812		
Coefficient of Variation	2.21		
Skewness	4.251	·	
R	elevant UCL S	tatistics	
Normal Distribution Test		Lognormal Distribution Test	.,,
Lilliefors Test Statistic	0.335	Lilliefors Test Statistic	0.20
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.472	95% H-UCL	0.66
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.82
95% Adjusted-CLT UCL	0.494	97.5% Chebyshev (MVUE) UCL	1.00
95% Modified-t UCL	0.475	99% Chebyshev (MVUE) UCL	1.35
Gamma Distribution Test		Data Distribution	and the second s
. k star (bias corrected)	0.399	Data do not follow a Discernable Distribution (0.05	<b>)</b>
Theta Star	0.921		<i></i>
nu star	132.4		
Approximate Chi Square Value (.05)	106.9	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0486	95% CLT UCL	0.47
Adjusted Chi Square Value	106.7	95% Jackknife UCL	0.47
, agasta sin equal sin equal sin		95% Standard Bootstrap UCL	0.47
Anderson-Darling Test Statistic	9.141	95% Bootstrap-t UCL	0.51
Anderson-Darling 5% Critical Value	0.844	95% Hall's Bootstrap UCL	0.52
Kolmogorov-Smirnov Test Statistic	0.183	95% Percentile Bootstrap UCL	0.47
Kolmogorov-Smirnov 5% Critical Value	0.0776	95% BCA Bootstrap UCL	0.49
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.64
		97.5% Chebyshev(Mean, Sd) UCL	0.76
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.99
95% Approximate Gamma UCL	0.456		
95% Adjusted Gamma UCL	0.456		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.76

	General	Statistics	## 15 T
Number of Valid Samples	166	Number of Unique Samples	125
Raw Statistics	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Log-transformed Statistics	
Minimum	2410	Minimum of Log Data	7.787
Maximum	77100	Maximum of Log Data	11.25
Mean	14277	Mean of log Data	9.418
Median	12400	SD of log Data	0.533
SD	9389		
Coefficient of Variation	0.658		
Skewness	3.268		H
	Relevant I I	CL Statistics	
Normal Distribution Test	· · · · · · · · · · · · · · · · · · ·	Lognormal Distribution Test	<b></b>
Lilliefors Test Statistic	0.205	Lilliefors Test Statistic	0.090
Lilliefors Critical Value	0.0688		0.068
Data not Normal at 5% Significance Level	0.0000	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	15482	95% H-UCL	15314
95% UCLs (Adjusted for Skewness)	4	95% Chebyshev (MVUE) UCL	16907
95% Adjusted-CLT UCL	15673	97.5% Chebyshev (MVUE) UCL	18087
95% Modified-t UCL	15513	99% Chebyshev (MVUE) UCL	20403
Gamma Distribution Test		Data Distribution	and and a second to the second se
k star (bias corrected)	3.478	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	4105	Live de la constitución de la co	
nu star	1155		grant annually consequent about the settlement
Approximate Chi Square Value (.05)	1077	Nonparametric Statistics	
Adjusted Level of Significance	0.0486		15475
Adjusted Chi Square Value	1076	95% Jackknife UCL	15482
		95% Standard Bootstrap UCL	15452
Anderson-Darling Test Statistic	3.183	95% Bootstrap-t UCL	15756
Anderson-Darling 5% Critical Value	0.758	95% Hall's Bootstrap UCL	15776
Kolmogorov-Smirnov Test Statistic	0.127	95% Percentile Bootstrap UCL	15528
Kolmogorov-Smirnov 5% Critical Value	0.0728	And the first consists the state of the stat	15729
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	17453
		97.5% Chebyshev(Mean, Sd) UCL	18828
Assuming Gamma Distribution	<u></u>	99% Chebyshev(Mean, Sd) UCL	21528
95% Approximate Gamma UCL	15309	30% Chebyone (Modifi, Gay Got	
95% Adjusted Gamma UCL	15319		and Alexal Phone affection to the
			adiet f., rauman, modil i de m. rau mdi i i i
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	17453
lesult or 1/2 SDL (isopropylbenzene (cumene))			
	General	Statistics	na frafe de stance de la companie de
Number of Valid Samples	83	Number of Unique Samples	64
Raw Statistics	· · · · · · · · · · · · · · · · · · ·	Log-transformed Statistics	
I JOHN CHORISTICS		Log-uanaionneu Siauauca	

Maximum	64.9	Maximum of Log Data	4.173
Mean	0.831	Mean of log Data	-8.404
Median	7.2000E-5	SD of log Data	2.525
SD	7.13		
Coefficient of Variation	8.582		
Skewness	9.065		
	Polovont I I	CL Statistics	
Normal Distribution Test	Relevant OC	Lognormal Distribution Test	***************************************
Lilliefors Test Statistic	0.514	Lilliefors Test Statistic	0.367
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level	1	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	1 0 100	Assuming Lognormal Distribution	0.04
95% Student's-t UCL	2.133	95% H-UCL	0.010
95% UCLs (Adjusted for Skewness)	·	95% Chebyshev (MVUE) UCL	0.014
95% Adjusted-CLT UCL	2.95	97.5% Chebyshev (MVUE) UCL	0.018
95% Modified-t UCL	2.263	99% Chebyshev (MVUE) UCL	0.026
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.103	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	8.035		······································
nu star	17.17		
Approximate Chi Square Value (.05)	8.79	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	2.11
Adjusted Chi Square Value	8.684	95% Jackknife UCL	2.13
		95% Standard Bootstrap UCL	2,09
Anderson-Darling Test Statistic	26.04	95% Bootstrap-t UCL	375
Anderson-Darling 5% Critical Value	1.026	95% Hall's Bootstrap UCL	363.5
Kolmogorov-Smirnov Test Statistic	0.415	95% Percentile Bootstrap UCL	2.39
Kolmogorov-Smirnov 5% Critical Value	0.113	95% BCA Bootstrap UCL	3.95
Data not Gamma Distributed at 5% Significance Le	<u> </u>	95% Chebyshev(Mean, Sd) UCL	4.24
		97.5% Chebyshev(Mean, Sd) UCL	5.71
Assuming Gamma Distribution	1	99% Chebyshev(Mean, Sd) UCL	8.61
95% Approximate Gamma UCL	1.622		
95% Adjusted Gamma UCL	1.642		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	8.618
esult or 1/2 SDL (lead)			
	General	Statistics	
Number of Valid Samples	166	Number of Unique Samples	145
D. O. P.			
Raw Statistics	T 0.40	Log-transformed Statistics	0.00
Minimum	2.48	Minimum of Log Data	0.90
Maximum	702	Maximum of Log Data	6.55
Mean	53.52	Mean of log Data	3.18
Median	17.1	SD of log Data	1.12
SD	104.2		***************************************
Coefficient of Variation	1.947		

	4 270		Taylor St
Skewness	4.276		da t. e summi un d'art du mui de l'enfrant Pde an
F	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.312	Lilliefors Test Statistic	0.13
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	66.9	95% H-UCL	55.13
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	66.37
95% Adjusted-CLT UCL	69.69	97.5% Chebyshev (MVUE) UCL	75.62
95% Modified-t UCL	67.35	99% Chebyshev (MVUE) UCL	93.79
Gamma Distribution Test		Data Distribution	<b>HILLIAN</b> AND
k star (bias corrected)	0.744	Data do not follow a Discernable Distribution (0.05	\
Theta Star	71.97	Data do not follow a Discernable Distribution (0.00	<i>!</i>
nu star	246.9		4
Approximate Chi Square Value (.05)	211.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	66.82
Adjusted Chi Square Value	211.2	95% Jackknife UCL	66.9
, ajaced on oquato value		95% Standard Bootstrap UCL	66.4
Anderson-Darling Test Statistic	10.55	95% Bootstrap-t UCL	72.9
Anderson-Darling 7est olatistic	0.796	95% Hall's Bootstrap UCL	69.8
Kolmogorov-Smirnov Test Statistic	0.790	95% Percentile Bootstrap UCL	67.2
Kolmogorov-Smirnov 7est Statistic	0.191	95% BCA Bootstrap UCL	70.2
_			88.7
Data not Gamma Distributed at 5% Significance Lev	vei	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	104
Accuming Commo Distribution			134
Assuming Gamma Distribution	CO 47	99% Chebyshev(Mean, Sd) UCL	134
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	62.47		****************
Potential UCL to Use .		Use 97.5% Chebyshev (Mean, Sd) UCL	104
ult or 1/2 SDL (lithium)			
Number of Valid Samples	General St	Number of Unique Samples	145
Number of Valid Samples	100	Number of Onique Samples	140
Raw Statistics		Log-transformed Statistics	
Minimum	0.65	Minimum of Log Data	-0.43
Maximum	28.6	Maximum of Log Data	3.3
Mean	10.03	Mean of log Data	2.0
Median	9.02	SD of log Data	0.7
SD	6.299		-1
Coefficient of Variation	0.628		**************************************
Skewness	0.63		
		Chatlatina	Turna de la companya
	elevant i ir i	Siausucs	
Normal Distribution Test	televant UCL	Lognormal Distribution Test	

Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	-	Assuming Lognormal Distribution	440
95% Student's-t UCL	10.84	95% H-UCL	12.06
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	13.87
95% Adjusted-CLT UCL	10.86	97.5% Chebyshev (MVUE) UCL	15.27
95% Modified-t UCL	10.85	99% Chebyshev (MVUE) UCL	18.02
Gamma Distribution Test		Data Distribution	,,
k star (bias corrected)	2.103	Data do not follow a Discernable Distribution (0.05	<b></b>
Theta Star	4.77	Data do not follow a Discernable Distribution (0.05)	<i>}</i>
and the control of th			
nu star	698.3		
Approximate Chi Square Value (.05)	638	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	10.84
Adjusted Chi Square Value	637.5	95% Jackknife UCL	10.84
		95% Standard Bootstrap UCL	10.82
Anderson-Darling Test Statistic	1.059	95% Bootstrap-t UCL	10.91
Anderson-Darling 5% Critical Value	0.765	95% Hall's Bootstrap UCL	10.87
Kolmogorov-Smirnov Test Statistic	0.0795	95% Percentile Bootstrap UCL	10.86
Kolmogorov-Smirnov 5% Critical Value	0.0733	95% BCA Bootstrap UCL	10.85
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	12.17
	-	97.5% Chebyshev(Mean, Sd) UCL	13.09
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	14.9
95% Approximate Gamma UCL	10.98		
95% Adjusted Gamma UCL	10.99		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	12.17
esult or 1/2 SDL (m,p-xylene)			
	General St	atistics	
Number of Valid Samples	83	Number of Unique Samples	81
Raw Statistics		Log-transformed Statistics	
	9.1000E-5	Minimum of Log Data	-9.305
Maximum	2.56	Maximum of Log Data	0.94
Mean	0.0347	Mean of log Data	-6.851
Median	0.0347	SD of log Data	1.64
		SD or log Data	1.04
SD SD	0.281		
Coefficient of Variation	8.104		
Skewness	9.073		d-aldraders for a side of the discount date
	Relevant UCL		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.485	Lilliefors Test Statistic	0.17
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level	4-1-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	angungaran nga pagang nga galandi did
95% Student's-t UCL	0.086	95% H-UCL	0.00

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95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.008
95% Adjusted-CLT UCL	0.118	97.5% Chebyshev (MVUE) UCL	0.010
95% Modified-t UCL	0.0911	99% Chebyshev (MVUE) UCL	0.014
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.21	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.165		antianted/engladfiants, effectively.com
nu star	34.84		
Approximate Chi Square Value (.05)	22.34	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.08
Adjusted Chi Square Value	22.16	95% Jackknife UCL	0.086
		95% Standard Bootstrap UCL	0.08
Anderson-Darling Test Statistic	18.54	95% Bootstrap-t UCL	2.13
Anderson-Darling 5% Critical Value	0.906	95% Hall's Bootstrap UCL	1.24
Kolmogorov-Smirnov Test Statistic	0.41	95% Percentile Bootstrap UCL	0.09
Kolmogorov-Smirnov 5% Critical Value	0.108	95% BCA Bootstrap UCL	0.15
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.16
V-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-		97.5% Chebyshev(Mean, Sd) UCL	0.22
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.34
95% Approximate Gamma UCL	0.0541		
95% Adjusted Gamma UCL	0.0545		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.22
ult or 1/2 SDL (manganese)	Co16	Notation	
	General S	,	133
ult or 1/2 SDL (manganese)  Number of Valid Samples	General S	Statistics  Number of Unique Samples	133
		,	133
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	166	Number of Unique Samples  Log-transformed Statistics	4.08
Number of Valid Samples  Raw Statistics  Minimum	166 59.3	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	4.08 6.79
Number of Valid Samples  Raw Statistics  Minimum  Maximum	59.3 892	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	4.08 6.79 5.47
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	59.3 892 261.2	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	4.08 6.79 5.47
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	59.3 892 261.2 224.5	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	4.08 6.79 5.47
Raw Statistics  Minimum  Maximum  Mean  Median	59.3 892 261.2 224.5 127.4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	4.08 6.79 5.47
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	59.3 892 261.2 224.5 127.4 0.488 2.072	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	4.08 6.79 5.47
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	59.3 892 261.2 224.5 127.4 0.488	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	4.08 6.79 5.47
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test	59.3 892 261.2 224.5 127.4 0.488 2.072	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	4.08 6.79 5.47 0.42
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	59.3 892 261.2 224.5 127.4 0.488 2.072	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test	4.08 6.79 5.47 0.42
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic	59.3 892 261.2 224.5 127.4 0.488 2.072	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	4.08 6.79 5.47 0.42
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level	59.3 892 261.2 224.5 127.4 0.488 2.072	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	4.08 6.79 5.47 0.42
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	59.3 892 261.2 224.5 127.4 0.488 2.072 Relevant UC 0.146 0.0688	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	4.08 6.79 5.47 0.42 0.07
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	59.3 892 261.2 224.5 127.4 0.488 2.072	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	4.08 6.79 5.47 0.42 0.07 0.06
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Norma! Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	59.3 892 261.2 224.5 127.4 0.488 2.072 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	4.08: 6.79: 5.47 0.42! 0.07 0.06: 276.1
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Norma! Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	59.3 892 261.2 224.5 127.4 0.488 2.072 Relevant UC 0.146 0.0688	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL	4.083 6.793 5.47 0.429 0.07 0.068 276.1 299.4 316.4
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Norma! Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	59.3 892 261.2 224.5 127.4 0.488 2.072 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	4.08 6.79 5.47 0.42 0.07 0.06 276.1

k star (bias corrected)	5.314	Data do not follow a Discernable Distribution (0.05	)
Theta Star	49.15		
nu star	1764		
Approximate Chi Square Value (.05)	1668	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	277.5
Adjusted Chi Square Value	1667	95% Jackknife UCL	277.5
		95% Standard Bootstrap UCL	277.3
Anderson-Darling Test Statistic	2.43	95% Bootstrap-t UCL	279
Anderson-Darling 5% Critical Value	0.755	95% Hall's Bootstrap UCL	280.1
Kolmogorov-Smirnov Test Statistic	0.0858	95% Percentile Bootstrap UCL	278.6
Kolmogorov-Smirnov 5% Critical Value	0.0725	95% BCA Bootstrap UCL	278.6
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	304.3
	<u> </u>	97.5% Chebyshev(Mean, Sd) UCL	323
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	359.6
95% Approximate Gamma UCL	276.3		
95% Adjusted Gamma UCL	276,4		t commit more comments
COOR AGISTIC COLOR	270.1		
Potential UCL to Use		Use 95% Student's-t UCL	277.5
Totalital Doc to osc		or 95% Modified-t UCL	277.8
		G 30% Modified Cost	277.0
esult or 1/2 SDL (mercury)			
	015	enter transferente de la companya del companya de la companya del companya de la companya del la companya de la	
Number of Valid Samples	General S	Number of Unique Samples	94
rambol of value camples	]	Training of oringes campiles	
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	0.001	Minimum of Log Data	-6.908
Maximum	0.85	Maximum of Log Data	-0.163
Mean	0.0262	Mean of log Data	-4.969
Median	0.0068	SD of log Data	1.332
SD	0.0941		v
Coefficient of Variation	3.59		
Skewness	6.891		
	Relevant UC	тарын тарын жана жана жана жана жана жана жана жа	and the state of t
Normal Distribution Test		Lognormal Distribution Test	^ ^^=
Lilliefors Test Statistic	0.394	Lilliefors Test Statistic	0.097
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level	a liberatura de la constanta d	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0383	95% H-UCL	0.021
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.026
95% Adjusted-CLT UCL	0.0424	97.5% Chebyshev (MVUE) UCL	0.031
95% Modified-t UCL	0.0389	99% Chebyshev (MVUE) UCL	0.039
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.477	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.055		
nu star	158.3		

promotive and writed the variation of the second contract of the sec	d	For commencement and another transfer and another transfer and another and another another another another and another	
Adjusted Level of Significance	0.0486		0.0382
Adjusted Chi Square Value	130	95% Jackknife UCL	0.0383
		95% Standard Bootstrap UCL	0.0378
Anderson-Darling Test Statistic	14.93	95% Bootstrap-t UCL	0.0543
Anderson-Darling 5% Critical Value	0.825	95% Hall's Bootstrap UCL	0.0842
Kolmogorov-Smirnov Test Statistic	0.234	95% Percentile Bootstrap UCL	0.0396
Kolmogorov-Smirnov 5% Critical Value	0.0768	' 1	0.0435
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.058
		97.5% Chebyshev(Mean, Sd) UCL	0.0718
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0988
95% Approximate Gamma UCL	0.0319		
95% Adjusted Gamma UCL	0.0319		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.0718
	ALCOHOL STATE STAT		
			nus musualdas diba vieni
Result or 1/2 SDL (methylcyclohexane)			
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	77
reamber of value samples		Number of Orique Campics	
Raw Statistics	***************************************	Log-transformed Statistics	
Minimum	1.3750E-4	Minimum of Log Data	-8.892
Maximum	2.73	Maximum of Log Data	1.004
Mean	0.0369	_	-6.534
Median	0.0019		1.611
SD	0.0019	3D 01 log Data	1.011
Coefficient of Variation	8.123		
Skewness	9.089		
ORGANIESS	3.003		
	Relevant UC	CL Statistics	g(
Normal Distribution Test	and the second of the second o	Lognormal Distribution Test	
Lilliefors Test Statistic	0.494	Lilliefors Test Statistic	0.199
Lilliefors Critical Value	0.0973		0.0973
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	water (Marcon Income)
	TTT MATERIALISA (ST. 1148) TATE SPECIAL SPECIA		
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0915	95% H-UCL	0.0088
95% UCLs (Adjusted for Skewness)	<u>                                     </u>	95% Chebyshev (MVUE) UCL	0.0108
95% Adjusted-CLT UCL	0.126	97.5% Chebyshev (MVUE) UCL	0.0132
95% Modified-t UCL	0.097	99% Chebyshev (MVUE) UCL	0.0179
Gamma Distribution Test		Data Distribution	ann ann an
k star (bias corrected)	0.224	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.165		
nu star	37.11		#G-4-3-65-3136441-manga-1
Approximate Chi Square Value (.05)	24.17	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0471	95% CLT UCL	0.0909
Adjusted Chi Square Value	23.98	95% Jackknife UCL	0.0915
,		95% Standard Bootstrap UCL	0.0909
Anderson-Darling Test Statistic	18.27	95% Bootstrap-t UCL	1.459
Anderson-Darling 5% Critical Value	0.9	95% Hall's Bootstrap UCL	1.338
rate to the state of the state	1 0.0	33 % Hall B Bookstap GOL	

		personal content of the content of t	
	1 1 1		
Kolmogorov-Smirnov Test Statistic	0.431	95% Percentile Bootstrap UCL	0.102
Kolmogorov-Smirnov 5% Critical Value	0.108	95% BCA Bootstrap UCL	0.168
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.18
	<u> </u>	97.5% Chebyshev(Mean, Sd) UCL	0.242
Assuming Gamma Distribution	1 00500	99% Chebyshev(Mean, Sd) UCL	0.364
95% Approximate Gamma UCL	0.0566		alana and photos had also and place
95% Adjusted Gamma UCL	0.057		······································
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.242
Result or 1/2 SDL (molybdenum)			
	General S	Statistics	
Number of Valid Samples	166	Number of Unique Samples	102
Raw Statistics	i da a a a a a a a a a a a a a a a a a a	Log-transformed Statistics	
Minimum	0.034	Minimum of Log Data	-3.381
Maximum	10.4	Maximum of Log Data	2.342
Mean	0.89	Mean of log Data	-1.228
Median	0.305	SD of log Data	1.597
SD	1.488		
Coefficient of Variation	1.671		
Skewness	3.38		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.282	Lilliefors Test Statistic	0.164
Lilliefors Critical Value	0.0688		0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	· P	Assuming Lognormal Distribution	
95% Student's-t UCL	1.081	95% H-UCL	1.474
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.842
95% Adjusted-CLT UCL	1.113	97.5% Chebyshev (MVUE) UCL	2.192
95% Modified-t UCL	1.086	99% Chebyshev (MVUE) UCL	2.88
Gamma Distribution Test	enderen in Maria andra in desemble de l'Ariana ann e	Data Distribution	
k star (bias corrected)	0.555	Data do not follow a Discernable Distribution (0.05	)
Theta Star			-
nu star	184.3		
Approximate Chi Square Value (.05)	153.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	-	1.08
Adjusted Chi Square Value	153.7	95% Jackknife UCL	1.08
, , , , , , , , , , , , , , , , , , , ,		95% Standard Bootstrap UCL	1.082
Anderson-Darling Test Statistic	4.333	95% Bootstrap-t UCL	1.129
Anderson-Darling 5% Critical Value	0.814	95% Hall's Bootstrap UCL	1.133
Kolmogorov-Smirnov Test Statistic	0.131	95% Percentile Bootstrap UCL	1.094
Kolmogorov-Smirnov 5% Critical Value	0.0763	95% BCA Bootstrap UCL	1.13
Data not Gamma Distributed at 5% Significance Le	<u> </u>	95% Chebyshev(Mean, Sd) UCL	1.394
- Promise and the second secon		· · · · · · · · · · · · · · · · · · ·	1.611
		97.5% Chebyshev(Mean, Sd) UCL	ונמ, ו

		<b>安徽市 (1</b> 5年 17 <b>6</b> 0年 17 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
95% Approximate Gamma UCL	1.066		
95% Adjusted Gamma UCL	1.068		
			4 011
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	1.611
sult or 1/2 SDL (naphthalene)			
	General Sta	itistics	
Number of Valid Samples	83	Number of Unique Samples	79
Raw Statistics		Log-transformed Statistics	
Minimum	1.3600E-4	Minimum of Log Data	-8,903
Maximum	19.2	Maximum of Log Data	2.955
Mean	0.323	Mean of log Data	-6.969
Median	0.0013	SD of log Data	2.216
SD	2.245		·
Coefficient of Variation	6.94		
Skewness	7.803		(11 - M T - 11 - 12 - 13 - 13 - 13 - 13 - 13 - 13
F	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	rent redressession (representation
Lilliefors Test Statistic	0.511	Lilliefors Test Statistic	0.208
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	garia - Language - Marina de Language
95% Student's-t UCL	0.733	95% H-UCL	0.026
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.027
95% Adjusted-CLT UCL	0.954	97.5% Chebyshev (MVUE) UCL	0.034
95% Modified-t UCL	0.768	99% Chebyshev (MVUE) UCL	0.049
Gamma Distribution Test		Data Distribution	4
k star (bias corrected)	0.137	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	2.362		***************************************
nu star	22.74		
Approximate Chi Square Value (.05)	12.89	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.729
Adjusted Chi Square Value	12.76	95% Jackknife UCL	0.733
		95% Standard Bootstrap UCL	0.735
Anderson-Darling Test Statistic	21.77	95% Bootstrap-t UCL	52.02
Anderson-Darling 5% Critical Value	0.973	95% Hall's Bootstrap UCL	53.32
Kolmogorov-Smirnov Test Statistic	0.411	95% Percentile Bootstrap UCL	0.785
Kolmogorov-Smirnov 5% Critical Value	0.111	95% BCA Bootstrap UCL	1.047
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	1.397
		97.5% Chebyshev(Mean, Sd) UCL	1.862
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.775
95% Approximate Gamma UCL	0.57		
95% Adjusted Gamma UCL	0.576		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	2.775

ılt or 1/2 SDL (nickel)			
	General Stat	istics	-half) dd af 18-47 c. 73 7377 734 7711
Number of Valid Samples	166	Number of Unique Samples	120
Raw Statistics		Log-transformed Statistics	\$\$\$7.48\$\$Q-100 <sub>4</sub> 7.110000000000
Minimum	2.7	Minimum of Log Data	0.99
Maximum	36.7	Maximum of Log Data	3.60
Mean	11.74	Mean of log Data	2.37
Median	11.65	SD of log Data	0.44
SD	4.874		
Coefficient of Variation	0.415		
Skewness	1.176		
· F	Relevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	mily marks makes a destable of a
Lilliefors Test Statistic	0.0957	Lilliefors Test Statistic	0.10
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	10.07	Assuming Lognormal Distribution	10 5
95% Student's-t UCL	12.37	95% H-UCL	12.58
95% UCLs (Adjusted for Skewness)	40.4	95% Chebyshev (MVUE) UCL	13.68
95% Adjusted-CLT UCL 95% Modified-t UCL	12.4	97.5% Chebyshev (MVUE) UCL	14.47
95% Modified-t UCL	12.37	99% Chebyshev (MVUE) UCL	16.04
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	5.687	Data do not follow a Discernable Distribution (0.05)	
Theta Star	2.064		
nu star	1888		
Approximate Chi Square Value (.05)	1788	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	12.36
Adjusted Chi Square Value	1787	95% Jackknife UCL	12.37
	0-16(1-1-16-1-17-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-18-17-	95% Standard Bootstrap UCL	12.37
Anderson-Darling Test Statistic	1.205	95% Bootstrap-t UCL	12.42
Anderson-Darling 5% Critical Value	0.755	95% Hall's Bootstrap UCL	12.45
Kolmogorov-Smirnov Test Statistic	0.0793	95% Percentile Bootstrap UCL	12.38
Kolmogorov-Smirnov 5% Critical Value	0.0725	95% BCA Bootstrap UCL	12.42
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	13.39
		97.5% Chebyshev(Mean, Sd) UCL	14.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	15.5
95% Approximate Gamma UCL	12.4		
95% Adjusted Gamma UCL	12.4		
Potential UCL to Use		Use 95% Student's-t UCL	12.37
	- Hatilitati Haya rasama-la Haya James Cata-Tarada	or 95% Modified-t UCL	12.3
			***************************************

**General Statistics** 

	7.		a vere
Number of Valid Samples	27	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	5.6500E-5	Minimum of Log Data	-9.781
Maximum	0.0048	Maximum of Log Data	-5.335
	3.0406E-4	Mean of log Data	-9.327
	6.3000E-5	SD of log Data	1.068
	9.3907E-4		
Coefficient of Variation	3.088		and and the same of the same o
Skewness	4.659		
OROWI JESS	4.003		
	Relevant UC	1 Statistics	
Normal Distribution Test	relevant oc	Lognormal Distribution Test	and Port Mills of Constitution Principles
Shapiro Wilk Test Statistic	0.294	Shapiro Wilk Test Statistic	0.423
Shapiro Wilk Critical Value	0.294	Shapiro Wilk Critical Value	0.423
	0.923	·	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
A			***************************************
Assuming Normal Distribution	10005	Assuming Lognormal Distribution	0.00705
95% Student's-t UCL	6.1230E-4	95% H-UCL	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	3.1099E-
95% Adjusted-CLT UCL	7.7447E-4	97.5% Chebyshev (MVUE) UCL	3.7949E-
95% Modified-t UCL	6.3931E-4	99% Chebyshev (MVUE) UCL	5.1405E-
Gamma Distribution Test		Data Distribution	apar dan dan man defenda wat iku pan dan man defen
k star (bias corrected)	0.482	Data do not follow a Discernable Distribution (0.0)	51
Theta Star		Data do Not Ionow a Discernable Distribution (0.0	
and to the annual terretain and the second control of the second c	26.04		
nu star	<u>.</u>	No. 1 de Charles	
Approximate Chi Square Value (.05)	15.41	Nonparametric Statistics	0.0400=
Adjusted Level of Significance	0.0401	95% CLT UCL	
Adjusted Chi Square Value	14.89		6.1230E-
		95% Standard Bootstrap UCL	5.9026E-
Anderson-Darling Test Statistic	8.142	95% Bootstrap-t UCL	0.002
Anderson-Darling 5% Critical Value	0.806	95% Hail's Bootstrap UCL	0.002
Kolmogorov-Smirnov Test Statistic	0.527	95% Percentile Bootstrap UCL	6.4078E-
Kolmogorov-Smirnov 5% Critical Value	0.178	95% BCA Bootstrap UCL	9.0915E-
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution	.ž	99% Chebyshev(Mean, Sd) UCL	0.002
95% Approximate Gamma UCL	5.1377E-4		
95% Adjusted Gamma UCL	5.3182E-4		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.002
lesult or 1/2 SDL (n-propylbenzene)			
	General S		
Number of Valid Samples	83	Number of Unique Samples	57
Raw Statistics		Log-transformed Statistics	
Minimum	3.2000E-5	Minimum of Log Data	-10.35
	1		1

Mean	0.0237	Mean of log Data	-8.883
Median	6.6000E-5	SD of log Data	1.815
SD	0.198		
Coefficient of Variation	8.331		***************************************
Skewness	9.058		
	Relevant UC	CL Statistics	andre establishe may adopt to ballet a perteceste est
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.503	Lilliefors Test Statistic	0.353
Lilliefors Critical Value	0.0973		0.097
Data not Normal at 5% Significance Level	· Martin Mar	Data not Lognormal at 5% Significance Level	- 1417-1-1-1-1
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0598	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0825	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0634	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	name and a second
k star (bias corrected)	0.152	Data do not follow a Discernable Distribution (0.05)	1
Theta Star	0.152	Date do not lollow a Discernable Distribution (0.00)	<i>;</i>
nu star	25.26		
Approximate Chi Square Value (.05)	14.81	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.059
Adjusted Chi Square Value	14.67	95% Jackknife UCL	0.059
Adjusted Offi Square Value	14.07	95% Standard Bootstrap UCL	0.059
Anderson-Darling Test Statistic	25.64	95% Bootstrap -t UCL	1.155
Anderson-Darling 5% Critical Value	0.958	95% Hall's Bootstrap UCL	1.125
Kolmogorov-Smirnov Test Statistic	0.434	95% Percentile Bootstrap UCL	0.067
Kolmogorov-Smirnov 5% Critical Value	0.434	95% BCA Bootstrap UCL	0.007
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	0.118
Data not Cannina Distributed at 5% Significance Le	YGI	97.5% Chebyshev(Mean, Sd) UCL	0.159
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.100
95% Approximate Gamma UCL	0.0405	33% Offebyshev(Wear), Ody OCE	0.24
95% Adjusted Gamma UCL	0.0409		enandrum muranym ht
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.159
Result or 1/2 SDL (o-xylene)			anna quanta dinta mad
	General S		
Number of Valid Samples	83	Number of Unique Samples	71
Raw Statistics	##	Log-transformed Statistics	19-14-14-1-1-1-14-14-14-14-14-14-14-14-14-
Minimum	4.0000E-5	Minimum of Log Data	-10.13
Maximum	0.84	Maximum of Log Data	-0.174
Mean	0.0132	Mean of log Data	-8.136
Median	9.5000E-5	SD of log Data	1.904
SD	0.0931		
Coefficient of Variation	7.053		
Skewness	8.784		

	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.476	Lilliefors Test Statistic	0.
Lilliefors Critical Value	0.0973	Lilliefors Critical Value	0.
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0302	95% H-UCL	0.
95% UCLs (Adjusted for Skewness)	1 0.0002	95% Chebyshev (MVUE) UCL	0.
95% Adjusted-CLT UCL	0.0405	97.5% Chebyshev (MVUE) UCL	0
95% Modified-t UCL	0.0318	99% Chebyshev (MVUE) UCL	0
	1		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.195	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	0.0676		
nu star	32.4		
Approximate Chi Square Value (.05)	20.39	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0
Adjusted Chi Square Value	20.22	95% Jackknife UCL	0
		95% Standard Bootstrap UCL	0
Anderson-Darling Test Statistic	18.03	95% Bootstrap-t UCL	0
Anderson-Darling 5% Critical Value	0.916	95% Hall's Bootstrap UCL	0
Kolmogorov-Smirnov Test Statistic	0.354	95% Percentile Bootstrap UCL	0
Kolmogorov-Smirnov 5% Critical Value	0.109	95% BCA Bootstrap UCL	0
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0
		97.5% Chebyshev(Mean, Sd) UCL	0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0
95% Approximate Gamma UCL	0.021		
95% Adjusted Gamma UCL	0.0211		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0
ult or 1/2 SDL (pentachlorobiphenyl (101))			
	General St	atistics	-
Number of Valid Samples	27	Number of Unique Samples	22
Raw Statistics		Log-transformed Statistics	
Minimum	9.8500E-5	Minimum of Log Data	-9.2
Maximum	0.0445	Maximum of Log Data	-3.
Mean	0.0024	Mean of log Data	-8.2
Median	1.0650E-4	SD of log Data	1
SD	0.0088		
Coefficient of Variation	3.661		
Skewness	4.618		
	Relevant UCL	Statistics	
Normal Distribution Test	.C.CVAIR OCL	Lognormal Distribution Test	
	1	-canonial bloatbatton 1000	
Shapiro Wilk Test Statistic	0.292	Shapiro Wilk Test Statistic	0.

Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0052	95% H-UCL	0.00
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0068	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0055	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.298	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0080		, 
nu star	16.11		
Approximate Chi Square Value (.05)	8.038	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.00
Adjusted Chi Square Value	7.674	95% Jackknife UCL	0.00
Aujusteu Offi Oquale Value	7.074	95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	5.88		0.00
		95% Bootstrap-t UCL	
Anderson-Darling 5% Critical Value	0.851	95% Hall's Bootstrap UCL	0.03
Kolmogorov-Smirnov Test Statistic	0.348	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.183	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.01
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.01
95% Approximate Gamma UCL	0.0048		
95% Adjusted Gamma UCL	0.0050		
· · · · · · · · · · · · · · · · · · ·	i j		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.01
Potential UCL to Use  ult or 1/2 SDL (pentachlorobiphenyl (105))		Use 99% Chebyshev (Mean, Sd) UCL	0.01
	General S		0.01
	General S		20
ult or 1/2 SDL (pentachlorobiphenyl (105))		tatistics	
ult or 1/2 SDL (pentachlorobiphenyl (105))  Number of Valid Samples  Raw Statistics		tatistics  Number of Unique Samples	
ult or 1/2 SDL (pentachlorobiphenyl (105))  Number of Valid Samples  Raw Statistics	27	tatistics  Number of Unique Samples  Log-transformed Statistics	20
ult or 1/2 SDL (pentachlorobiphenyl (105))  Number of Valid Samples  Raw Statistics  Minimum  Maximum	27 8.5500E-5	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-9.367
ult or 1/2 SDL (pentachlorobiphenyl (105))  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	8.5500E-5 0.0149	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-9.367 -4.206 -8.953
ult or 1/2 SDL (pentachlorobiphenyl (105))  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	8.5500E-5 0.0149 6.7935E-4	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.367 -4.206
ult or 1/2 SDL (pentachlorobiphenyl (105))  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	8.5500E-5 0.0149 6.7935E-4 9.5000E-5	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.367 -4.206 -8.953
ult or 1/2 SDL (pentachlorobiphenyl (105))  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.367 -4.206 -8.953
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-9.367 -4.200 -8.953
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189 5.174	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-9.367 -4.206 -8.953
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189 5.174	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	20 -9.367 -4.206 -8.953 1.06
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189 5.174 Relevant UCI	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-9.367 -4.206 -8.953 1.06
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189 5.174	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-9.367 -4.206 -8.953 1.06
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189 5.174 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-9.367 -4.206 -8.953 1.06
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	8.5500E-5 0.0149 6.7935E-4 9.5000E-5 0.0028 4.189 5.174 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	20 -9.367 -4.206 -8.953 1.06

A THE BUILDING THE STATE OF THE			
95% Adjusted-CLT UCL	0.0021	97.5% Chebyshev (MVUE) UCL	5.4673E-4
95% Modified-t UCL	0.0017	99% Chebyshev (MVUE) UCL	7.4014E-4
Gamma Distribution Test	·	Data Distribution	
k star (bias corrected)	0.378	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0018		
nu star	20.4		
Approximate Chi Square Value (.05)	11.15	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.001
Adjusted Chi Square Value	10.71	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	8.853	95% Bootstrap-t UCL	0.035
Anderson-Darling 5% Critical Value	0.831	95% Hall's Bootstrap UCL	0.034
Kolmogorov-Smirnov Test Statistic	0.522	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.18	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.003
		97.5% Chebyshev(Mean, Sd) UCL	0.004
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.006
95% Approximate Gamma UCL	0.0012		
95% Adjusted Gamma UCL	0.0012		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.006
ult or 1/2 SDL (pentachlorobiphenyl (118))	General S		
ult or 1/2 SDL (pentachlorobiphenyl (118))  Number of Valid Samples	General S	Statistics  Number of Unique Samples	24
			24
Number of Valid Samples Raw Statistics		Number of Unique Samples	24 -8.867
Number of Valid Samples Raw Statistics	27	Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples  Raw Statistics  Minimum	27 1.4100E-4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-8.867
Number of Valid Samples  Raw Statistics  Minimum  Maximum	1.4100E-4 0.0363	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-8.867 -3.316 -8.275
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	27 1.4100E-4 0.0363 0.0016	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-8.867 -3.316 -8.275
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	1.4100E-4 0.0363 0.0016 1.5900E-4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-8.867 -3.316 -8.275
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-8.867 -3.316 -8.275
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.867 -3.316 -8.275
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.867 -3.316
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.867 -3.316 -8.275
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test	-8.867 -3.316 -8.275 1.154
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-8.867 -3.316 -8.275 1.154
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-8.867 -3.316 -8.275 1.154
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	27  1.4100E-4  0.0363  0.0016  1.5900E-4  0.0069  4.326  5.184  Relevant UC  0.218  0.923	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-8.867 -3.316 -8.275 1.154 0.520 0.923
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-8.867 -3.316 -8.275 1.154 0.526 0.923
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	27  1.4100E-4  0.0363  0.0016  1.5900E-4  0.0069  4.326  5.184  Relevant UCI  0.218  0.923	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-8.867 -3.316 -8.275 1.154 0.526 0.923 9.1008E- 0.00°
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UC 0.218 0.923	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.867 -3.316 -8.275 1.154 0.526 0.923 9.1008E- 0.000
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	27  1.4100E-4  0.0363  0.0016  1.5900E-4  0.0069  4.326  5.184  Relevant UCI  0.218  0.923	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-8.867 -3.316 -8.275 1.154 0.520 0.923 9.1008E- 0.000
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	1.4100E-4 0.0363 0.0016 1.5900E-4 0.0069 4.326 5.184 Relevant UC 0.218 0.923	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.867 -3.316 -8.275 1.154 0.526 0.923

Theta Star	0.0046		
nu star	18.77		
Approximate Chi Square Value (.05)	9.953	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.0038
Adjusted Chi Square Value	9.542	95% Jackknife UCL	0.0038
		95% Standard Bootstrap UCL	0.0037
Anderson-Darling Test Statistic	7.604	95% Bootstrap-t UCL	0.0662
Anderson-Darling 5% Critical Value	0.839	95% Hall's Bootstrap UCL	0.0422
Kolmogorov-Smirnov Test Statistic	0.401	95% Percentile Bootstrap UCL	0.0042
Kolmogorov-Smirnov 5% Critical Value	0.181	95% BCA Bootstrap UCL	0.006
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.007
		97.5% Chebyshev(Mean, Sd) UCL	0.009
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.014
95% Approximate Gamma UCL	0.0030		
95% Adjusted Gamma UCL	0.0031	·	
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0149
Result or 1/2 SDL (pentachlorobiphenyl (87))			
	General S	Statistics	in a randing diplomatic
Number of Valid Samples	27	Number of Unique Samples	23
Raw Statistics		Log-transformed Statistics	kraal ned residencide red as belon kind of comme
Minimum	1.1750E-4	Minimum of Log Data	-9.049
Maximum	0.0257	Maximum of Log Data	-3.661
Mean	0.0014	Mean of log Data	-8.363
Median	1.3200E-4	SD of log Data	1.31
SD	0.0050		erioris et alle resolution (de resolution) (se resolution)
Coefficient of Variation	3.554		D. 300.000.000.000.000.000.000.000.000.00
Skewness	4.689		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.287	Shapiro Wilk Test Statistic	0.547
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level	***************************************	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	mhanti Hinruttion in tribun
95% Student's-t UCL	0.0030	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0039	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0032		0.002
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0,353	Data do not follow a Discernable Distribution (0.05	<u> </u>
k star (bias corrected)  Theta Star	0.0040	Data do not rollow a Discernable Distribution (0.05	1
nu star	19.06		
Approximate Chi Square Value (.05)	10.16	Nonparametric Statistics	or non-productive and the contraction of the contraction of
Adjusted Level of Significance	0.0401	95% CLT UCL	0.003
Adjusted Level of Digitification	; U.U4U I)	53 /6 CLT UCL	0.003

	4		
	44		
		95% Standard Bootstrap UCL	0.0030
Anderson-Darling Test Statistic	7.038	95% Bootstrap-t UCL	0.0322
Anderson-Darling 5% Critical Value	0.837	95% Hall's Bootstrap UCL	0.0278
Kolmogorov-Smirnov Test Statistic	0.408	95% Percentile Bootstrap UCL	0.0032
Kolmogorov-Smirnov 5% Critical Value	0.181	95% BCA Bootstrap UCL	0.0042
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0056
		97.5% Chebyshev(Mean, Sd) UCL	0.0074
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0111
95% Approximate Gamma UCL	0.0026		
95% Adjusted Gamma UCL	0.0027		***************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0111
	4 +		(N-12-41-11-11-11-11-11-11-11-11-11-11-11-11-
Result or 1/2 SDL (phenanthrene)			
	General S		
Number of Valid Samples	166	Number of Unique Samples	128
Raw Statistics		Log-transformed Statistics	
Minimum	0.0057	Minimum of Log Data	-5.159
Maximum	12.6	Maximum of Log Data	2.534
Mean	0.401	Mean of log Data	-3.001
Median	0.0421	SD of log Data	2.017
SD	1.228	3	***************************************
Coefficient of Variation	3.064		***************************************
Skewness	6.986		***************************************
F	Relevant UC	L Statistics	anne en la constanta de la cons
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.374	Lilliefors Test Statistic	0.185
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.0688
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	naka kata gata 15 ggalamin 18 lingung taun 100 dan dan
95% Student's-t UCL	0.559	95% H-UCL	0.628
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.776
95% Adjusted-CLT UCL	0.613	97.5% Chebyshev (MVUE) UCL	0.954
95% Modified-t UCL	0.567	99% Chebyshev (MVUE) UCL	1.302
Gamma Distribution Test		Data Distribution	
	0.204		1
k star (bias corrected)	0.324	Data do not follow a Discernable Distribution (0.05	)
Theta Star	1.237		
nu star	107.6		
Approximate Chi Square Value (.05)	84.65	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.558
Adjusted Chi Square Value	84.47	95% Jackknife UCL	0.559
		95% Standard Bootstrap UCL	0.56
Anderson-Darling Test Statistic	12.32	95% Bootstrap-t UCL	0.677
Anderson-Darling 5% Critical Value	0.862	95% Hall's Bootstrap UCL	1.18
Kolmogorov-Smirnov Test Statistic	0.194	95% Percentile Bootstrap UCL	0.578
Kolmogorov-Smirnov 5% Critical Value	0.0784	95% BCA Bootstrap UCL	0.651

Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.816
		97.5% Chebyshev(Mean, Sd) UCL	0.996
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.349
95% Approximate Gamma UCL	0.51		
95% Adjusted Gamma UCL	0.511		***************************************
			WITCHES CHEMICING CO.
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.34
sult or 1/2 SDL (pyrene)			
	General St	atistics	
Number of Valid Samples	166	Number of Unique Samples	134
Raw Statistics		Log-transformed Statistics	
Minimum	0.0055	Minimum of Log Data	-5.194
Maximum	8.47	Maximum of Log Data	2.13
Mean	0.432	Mean of log Data	-2.891
Median	0.432	SD of log Data	2.02
SD	1.11	3D 01 log Data	2.02
Coefficient of Variation	2.57		
Skewness	4.384		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Orewiess	4.304		
	Relevant UCL		
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.35	Lilliefors Test Statistic	0.12
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.06
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	atatianti. 18
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.575	95% H-UCL	0.71
95% UCLs (Adjusted for Skewness)		, 95% Chebyshev (MVUE) UCL	0.88
95% Adjusted-CLT UCL	0.605	97.5% Chebyshev (MVUE) UCL	1.08
95% Modified-t UCL	0.58	99% Chebyshev (MVUE) UCL	1.48
Gamma Distribution Test		Data Distribution	and the Europe (1991) is to
k star (bias corrected)	0.329	Data do not follow a Discernable Distribution (0.05	<u>)</u>
Theta Star	1.314		
nu star	109.2		/
Approximate Chi Square Value (.05)	86.04	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.57
Adjusted Chi Square Value	85.87	95% Jackknife UCL	0.57
rajustou Oni Oquare Value	55.57	95% Standard Bootstrap UCL	0.57
Anderson-Darling Test Statistic	11.49	95% Bootstrap-t UCL	0.57
Anderson-Darling 7% Critical Value	0.861	95% Hall's Bootstrap UCL	0.61
Kolmogorov-Smirnov Test Statistic	0.861	95% Percentile Bootstrap UCL	0.57
Kolmogorov-Smirnov 1est Statistic  Kolmogorov-Smirnov 5% Critical Value	0.188	95% BCA Bootstrap UCL	0.57
		-	
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	0.80
Access - O D1 - 11 - 11		97.5% Chebyshev(Mean, Sd) UCL	0.97
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.29
95% Approximate Gamma UCL	0.548		*********************
95% Adjusted Gamma UCL	0.549		

Potential UCL to Use	1	Use 99% Chebyshev (Mean, Sd) UCL	1.29
	ra era gyri byr, syrnyr vygdi eus gyrigi, <sub>a</sub> as <sub>y</sub> a, asy		naganduring kaping independence
ult or 1/2 SDL (selenium)	and the wind the standard and a President		
	General	Statistics	
Number of Valid Samples	166	Number of Unique Samples	32
Raw Statistics	Too and the second second second second	Log-transformed Statistics	
Minimum	0.21	Minimum of Log Data	-1.56
Maximum	1.13	Maximum of Log Data	0.12
Mean	0.28	Mean of log Data	-1.31
Median	0.25	SD of log Data	0.2
SD	0.119	OD OI TO DE DELLO	
	ļ		
Coefficient of Variation Skewness	0.426 4.859		· · · · · · · · · · · · · · · · · · ·
Normal Distribution Test	Relevant UC	CL Statistics Lognormal Distribution Test	
Lilliefors Test Statistic	0.378	Lilliefors Test Statistic	0.3
Lilliefors Critical Value	0.0688		0.0
Data not Normal at 5% Significance Level	0.0000	Data not Lognormal at 5% Significance Level	0.0
Data not Normal at 5% digital cance Level	,	Data not cognomia at 3 % Significance Level	
Assuming Normal Distribution	adiud 1461 - a ant a 167 167 167 167 a 167 - 1686 are againg are 1 168 a	Assuming Lognormal Distribution	
95% Student's-t UCL	0.296	95% H-UCL (	0.2
95% UCLs (Adjusted for Skewness)	[	95% Chebyshev (MVUE) UCL	0.3
95% Adjusted-CLT UCL	0.299	97.5% Chebyshev (MVUE) UCL	0.3
95% Modified-t UCL	0.296	99% Chebyshev (MVUE) UCL	0.3
Gamma Distribution Test	•	Data Distribution	
k star (bias corrected)	10.6	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0265		
nu star	3518		wareness and and the Prince
Approximate Chi Square Value (.05)	3381	Nonparametric Statistics	um.nantambites
Adjusted Level of Significance	0.0486	95% CLT UCL	0.2
Adjusted Chi Square Value	3380	95% Jackknife UCL	0.2
		95% Standard Bootstrap UCL	0.2
Anderson-Darling Test Statistic	26.48	95% Bootstrap-t UCL	0.3
Anderson-Darling 5% Critical Value	0.751	95% Hall's Bootstrap UCL	0.3
Kolmogorov-Smirnov Test Statistic	0.351	95% Percentile Bootstrap UCL	0.2
Kolmogorov-Smirnov 5% Critical Value	0.0723		0.3
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.3
2000 Tot Gamma Distributed at 070 Significance Le		97.5% Chebyshev(Mean, Sd) UCL	0.3
Accuraing Commo Distribution			
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.3
95% Approximate Gamma UCL	0.292		
95% Adjusted Gamma UCL	0.292		und-neuros west
Petersial IIOI to III-		1100 050/ 04-2-4-71101	~ ~
Potential UCL to Use		Use 95% Student's-t UCL	0.2
		or 95% Modified-t UCL	0.2

	General S	tatiatiaa	
Number of Valid Samples	166	Number of Unique Samples	40
			aft das der Marie arm i i s'falm Marie fra
Raw Statistics		Log-transformed Statistics	CALIFER THAT WAS THE TARREST THAT THE TARREST THE TARREST THE TARREST THAT THE TARREST THE TA
Minimum	0.0235	Minimum of Log Data	-3.751
Maximum	1.64	Maximum of Log Data	0.495
Mean	0.063	Mean of log Data	-3.356
Median	0.028	SD of log Data	0.716
SD	0.165		
Coefficient of Variation	2.624		
Skewness	7.044		
F	Relevant UCI	_ Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.441	Lilliefors Test Statistic	0.376
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	***************************************	Assuming Lognormal Distribution	summation dispersion
95% Student's-t UCL	0.0843	95% H-UCL	0.050
95% UCLs (Adjusted for Skewness)	0.00.10	95% Chebyshev (MVUE) UCL	0.057
95% Adjusted-CLT UCL	0.0916	97.5% Chebyshev (MVUE) UCL	0,062
95% Modified-t UCL	0.0854	99% Chebyshev (MVUE) UCL	0.072
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.964	Data do not follow a Discernable Distribution (0.05)	<u> </u>
Theta Star	0.0654	Data do not follow d Diodonia do Diodonia do Companyo	
nu star	320.2		
Approximate Chi Square Value (.05)	279.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.084
Adjusted Chi Square Value	279.4	95% Jackknife UCL	0.084
		95% Standard Bootstrap UCL	0.084
Anderson-Darling Test Statistic	42.85	95% Bootstrap-t UCL	0.104
Anderson-Darling 5% Critical Value	0.785	95% Hall's Bootstrap UCL	0.11
Kolmogorov-Smirnov Test Statistic	0.424	95% Percentile Bootstrap UCL	0.086
Kolmogorov-Smirnov 5% Critical Value	0.0746	95% BCA Bootstrap UCL	0.094
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	0.119
		97.5% Chebyshev(Mean, Sd) UCL	0.143
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.191
95% Approximate Gamma UCL	0.0721		
95% Adjusted Gamma UCL	0.0722		
Potential UCL to Use		. Use 95% Chebyshev (Mean, Sd) UCL	0.119
esult or 1/2 SDL (strontium)	and the state of t		
	and the control of th		
	General S		
Number of Valid Samples	166	Number of Unique Samples	151

Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SL Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	2.803 6.382 4.107 0.59
Maximum of Log Data  Mean of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test	6.382 4.107
Mean of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test	4.107
SD of log Data  CL Statistics  Lognormal Distribution Test	
CL Statistics Lognormal Distribution Test	
Lognormal Distribution Test	
Lognormal Distribution Test	
Lognormal Distribution Test	
Lognormal Distribution Test	
	0.138
Lilliefors Critical Value	0.0688
1	0.0000
Data not Lognormal at 5% Significance Level	
Assuming Lognormal Distribution	
	78.78
	87.8
	94.53
99% Chebyshev (MVUE) UCL	107.7
Data Distribution	
2.405 Data do not follow a Discernable Distribution (0.05	
Nonparametric Statistics	
95% CLT UCL	85.03
95% Jackknife UCL	85.08
95% Standard Bootstrap UCL	84.96
95% Bootstrap-t UCL	88.74
95% Hall's Bootstrap UCL	88.35
95% Percentile Bootstrap UCL	85.62
95% BCA Bootstrap UCL	87.31
95% Chebyshev(Mean, Sd) UCL	100.6
	111.4
99% Chebyshev(Mean, Sd) UCL	132.6
Use 95% Chebyshev (Mean, Sd) UCL	100.6
-	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL

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SD	0.0037	the second process of the second part of the second	
Coefficient of Variation	4.064	The state of the s	
Skewness	5.095		
	elevant UCL	Statistics	
Normal Distribution Test	elevant oct (	Lognormal Distribution Test	and to speciments and service and service are serviced as the service and service are serviced as the
Shapiro Wilk Test Statistic	0.245	Shapiro Wilk Test Statistic	0.554
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	E- 147 have allerings famouslike by the opposite page.
			***************************************
Assuming Normal Distribution	0.0004	Assuming Lognormal Distribution	C 0000F
95% Student's-t UCL	0.0021	95% H-UCL	
95% UCLs (Adjusted for Skewness)			7.0103E-
95% Adjusted-CLT UCL	0.0029		8.7638E-
95% Modified-t UCL	0.0023	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.326	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0028		wishion
nu star	17.61		
Approximate Chi Square Value (.05)	9.108	Nonparametric Statistics	
Adjusted Level of Significance	0.0401	95% CLT UCL	0.00
Adjusted Chi Square Value	8.718	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.002
Anderson-Darling Test Statistic	7.003	95% Bootstrap-t UCL	0.025
Anderson-Darling 5% Critical Value	0.844	95% Hall's Bootstrap UCL	0.016
Kolmogorov-Smirnov Test Statistic	0.445	95% Percentile Bootstrap UCL	0.002
Kolmogorov-Smirnov 5% Critical Value	0.182	95% BCA Bootstrap UCL	0.003
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.008
95% Approximate Gamma UCL	0.0018		
95% Adjusted Gamma UCL	0.0018		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.008
sult or 1/2 SDL (tetrachlorobiphenyl (52))			
	General Sta	ntistics	
Number of Valid Samples	27	Number of Unique Samples	24
Raw Statistics		Log-transformed Statistics	manual designation of the
Minimum	9.9500E-5	Minimum of Log Data	-9.215
Maximum	0.0336	Maximum of Log Data	-3.393
Mean	0.0017	Mean of log Data	-8.357
and the state of t	1.1300E-4	SD of log Data	1.40
		OD OI TOU DATE	
	0 0065	1	
SD Coefficient of Variation	0.0065 3.771		······································

Relevant UCL Statistics

			on at the first of	
Normal Distribution Test		Lognormal Distribution Test		
Shapiro Wilk Test Statistic	0.274	Shapiro Wilk Test Statistic	0.632	
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923	
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level		
			\$1	
Assuming Normal Distribution		Assuming Lognormal Distribution		
95% Student's-t UCL	0.0038		0.0014	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0014	
95% Adjusted-CLT UCL	0.0050		0.0018	
95% Modified-t UCL	0.0040	99% Chebyshev (MVUE) UCL	0.0025	
Gamma Distribution Test		Data Distribution		
k star (bias corrected)	0.326	Data do not follow a Discernable Distribution (0.05)	)	
Theta Star	0.0053		response to the transfer of the second	
nu star	17.59			
Approximate Chi Square Value (.05)	9.095	Nonparametric Statistics		
Adjusted Level of Significance	0.0401	95% CLT UCL	0.0037	
Adjusted Chi Square Value	8.705	95% Jackknife UCL	0.0038	
		95% Standard Bootstrap UCL	0.0037	
Anderson-Darling Test Statistic	6.223	95% Bootstrap-t UCL	0.049	
Anderson-Darling 5% Critical Value	0.844	95% Hall's Bootstrap UCL	0.0272	
Kolmogorov-Smirnov Test Statistic	0.351	95% Percentile Bootstrap UCL	0.0041	
Kolmogorov-Smirnov 5% Critical Value	0,182	95% BCA Bootstrap UCL	0.0059	
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.0072	
3		97.5% Chebyshev(Mean, Sd) UCL	0.0095	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0142	
95% Approximate Gamma UCL	0.0033	1		
95% Adjusted Gamma UCL	0.0034			
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0142	
Result or 1/2 SDL (tin)				
	General S	Statistics		
Number of Valid Samples	166	Number of Unique Samples	57	
Raw Statistics		Log-transformed Statistics	11911 Och 1 America (1111) Philippin (1111) Philippin	
Minimum	0.23	Minimum of Log Data	-1.47	
Maximum	6.48	Maximum of Log Data	1.869	
Mean	0.43	Mean of log Data	-0.912	
Median	0.010	SD of log Data	0.764	
SD	0.868	SD 01 log Data	0.704	
Coefficient of Variation	1.409			
Skewness	3.697			
	manane vas entre			
	televant UC	L Statistics		
Normal Distribution Test	and a section of the	Lognormal Distribution Test		
Lilliefors Test Statistic	0.33	Lilliefors Test Statistic	0.34	
Lilliefors Critical Value	0.0688		0.0688	
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level		

			2.0
Assuming Normal Distribution		Assuming Lognormal Distribution	7 Species - New York
95% Student's-t UCL	0.727	95% H-UCL	0.605
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.693
95% Adjusted-CLT UCL	0.748	97.5% Chebyshev (MVUE) UCL	0.761
95% Modified-t UCL	0.731	99% Chebyshev (MVUE) UCL	0.894
Gamma Distribution Test		Data Distribution	undesken er dele unde fledelsken
k star (bias corrected)			<u> </u>
Theta Star	0.477	Data do not follow a Discernable Distribution (0.05)	,
nu star	428.9		
Approximate Chi Square Value (.05)	381.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	0.727
Adjusted Chi Square Value	381.5	95% Jackknife UCL	0.727
, injusted on square relation	007.10	95% Standard Bootstrap UCL	0.727
Anderson-Darling Test Statistic	26.15	95% Bootstrap-t UCL	0.759
Anderson-Darling 5% Critical Value	0.776	95% Hall's Bootstrap UCL	0.758
Kolmogorov-Smirnov Test Statistic	0.352	95% Percentile Bootstrap UCL	0.73
Kolmogorov-Smirnov 5% Critical Value	0.0741	95% BCA Bootstrap UCL	0.751
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.91
		97.5% Chebyshev(Mean, Sd) UCL	1.037
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.286
95% Approximate Gamma UCL	0.692		
95% Adjusted Gamma UCL	0.693		Barryon in generalization of the planty of the
menuperantum distribution of the control of the con	0.000		handangani andahar baranga
		No.	
Potential UCL to Use  Result or 1/2 SDL (titanium)		Use 95% Chebyshev (Mean, Sd) UCL	0.91
Potential UCL to Use  Result or 1/2 SDL (titanium)	General S		0.91
	General S		0.91
Result or 1/2 SDL (titanium)  Number of Valid Samples		Statistics  Number of Unique Samples	
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics	166	Statistics  Number of Unique Samples  Log-transformed Statistics	114
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum	4.02	Statistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	1.391
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum	4.02 645	Statistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	1.391 6.469
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	4.02 645 25.77	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	114 1.391 6.469 3.014
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	4.02 645 25.77	Statistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	1.391 6.469
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	4.02 645 25.77 19 50.15	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	114 1.391 6.469 3.014
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	4.02 645 25.77 19 50.15 1.946	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	114 1.391 6.469 3.014
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	4.02 645 25.77 19 50.15 1.946 11.61	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data	114 1.391 6.469 3.014
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	4.02 645 25.77 19 50.15 1.946	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data	114 1.391 6.469 3.014
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	4.02 645 25.77 19 50.15 1.946 11.61	Cog-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	114 1.391 6.469 3.014
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	4.02 645 25.77 19 50.15 1.946 11.61	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	1.391 6.469 3.014 0.484
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic	4.02 645 25.77 19 50.15 1.946 11.61	Citatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	1.391 6.469 3.014 0.484
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value	4.02 645 25.77 19 50.15 1.946 11.61	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value	1.391 6.469 3.014 0.484
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level	4.02 645 25.77 19 50.15 1.946 11.61	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	1.391 6.469 3.014 0.484
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	4.02 645 25.77 19 50.15 1.946 11.61 Relevant UC	Etatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	1.391 6.469 3.014 0.484 0.177 0.0688
Result or 1/2 SDL (titanium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	4.02 645 25.77 19 50.15 1.946 11.61 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	1.391 6.469 3.014 0.484 0.177 0.0688

	3		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.243	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	11.49		unner (
nu star	744.8		. (
Approximate Chi Square Value (.05)	682.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0486	95% CLT UCL	32.17
Adjusted Chi Square Value	681.9	95% Jackknife UCL	32.21
	***************************************	95% Standard Bootstrap UCL	32.2
Anderson-Darling Test Statistic	6.024E+28	95% Bootstrap-t UCL	48.92
Anderson-Darling 5% Critical Value	0.764	95% Hall's Bootstrap UCL	55.9
Kolmogorov-Smirnov Test Statistic	0.272	95% Percentile Bootstrap UCL	33.3
Kolmogorov-Smirnov 5% Critical Value	0.0732	95% BCA Bootstrap UCL	37.62
Data not Gamma Distributed at 5% Significance Level	vel	95% Chebyshev(Mean, Sd) UCL	42.74
		97.5% Chebyshev(Mean, Sd) UCL	50.08
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	64.5
95% Approximate Gamma UCL	28.13		
95% Adjusted Gamma UCL	28.15		
Potential UCL to Use		Use 95% Student's-t UCL	32.2
		or 95% Modified-t UCL	32.8
	General Stat		
Number of Valid Samples	General Stat	istics  Number of Unique Samples	80
Number of Valid Samples  Raw Statistics		Number of Unique Samples	80
	83		80 -8.25
Raw Statistics	83	Number of Unique Samples  Log-transformed Statistics	-8,25
Raw Statistics Minimum	83 2.6100E-4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-8.25 -2.24
Raw Statistics Minimum Maximum	2.6100E-4 0.106	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-8.25 -2.24 -5.738
Raw Statistics Minimum Maximum Mean	2.6100E-4 0.106 0.0057	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.25 -2.24 -5.738
Raw Statistics  Minimum  Maximum  Mean  Median	2.6100E-4 0.106 0.0057 0.0036	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.25 -2.249 -5.738
Raw Statistics  Minimum  Maximum  Mean  Median  SD	2.6100E-4 0.106 0.0057 0.0036 0.0117	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-8.25 -2.24 -5.738
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.25 -2.24 -5.738
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.25 -2.24! -5.73i 1.08
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-8.25 -2.249 -5.738
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Final Point Point Statistic  Lilliefors Test Statistic	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic	-8.25 -2.24! -5.73 1.08
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level	-8.25 -2.24! -5.73 1.08
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Final Mormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	83  2.6100E-4  0.106  0.0057  0.0036  0.0117  2.033  7.835  Relevant UCL S  0.351  0.0973	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLatistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-8.25 -2.24! -5.73i 1.08 0.14 0.09
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	2.6100E-4 0.106 0.0057 0.0036 0.0117 2.033 7.835	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-8.25 -2.24! -5.73i 1.08 0.14 0.09
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	83  2.6100E-4  0.106  0.0057  0.0036  0.0117  2.033  7.835  Relevant UCL S  0.351  0.0973	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SU of log Data  SD of log Data  Comportable Statistics  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-8.25 -2.24' -5.73' 1.00 0.1- 0.09
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Final Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	83  2.6100E-4  0.106  0.0057  0.0036  0.0117  2.033  7.835  Relevant UCL S  0.351  0.0973  0.0078	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLatistics  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-8.25 -2.24 -5.73 1.00 0.14 0.09
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Lilliefors Test Statistic Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	83  2.6100E-4  0.106  0.0057  0.0036  0.0117  2.033  7.835  Relevant UCL S  0.351  0.0973	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SU of log Data  SD of log Data  Comportable Statistics  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-8,25 -2,24! -5,73; 1,00 0,14 0,09
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Final Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	83  2.6100E-4  0.106  0.0057  0.0036  0.0117  2.033  7.835  Relevant UCL S  0.351  0.0973  0.0078	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLatistics  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-8.25 -2.24 -5.73 1.00 0.14 0.09
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Lilliefors Test Statistic  Lilliefors Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	83  2.6100E-4  0.106  0.0057  0.0036  0.0117  2.033  7.835  Relevant UCL S  0.351  0.0973  0.0078	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SU of	-8,25 -2,24! -5,73; 1,00 0,14 0,00 0,00 0,00

nu star	161.4		
Approximate Chi Square Value (.05)	133	Nonparametric Statistics	
Adjusted Level of Significance	0.0471	95% CLT UCL	0.007
Adjusted Chi Square Value	132.5	95% Jackknife UCL	0.007
	<u> </u>	95% Standard Bootstrap UCL	0.007
Anderson-Darling Test Statistic	2.348	95% Bootstrap-t UCL	0.011
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	0.015
Kolmogorov-Smirnov Test Statistic	0.184	95% Percentile Bootstrap UCL	0.008
Kolmogorov-Smirnov 5% Critical Value	0.101	95% BCA Bootstrap UCL	0.009
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.013
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.018
95% Approximate Gamma UCL	0.0069		
95% Adjusted Gamma UCL	0.0069		
507/Aujacia Gariina 501			
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.013
esult or 1/2 SDL (total moisture)			
	General S	Statistics	nanana-erararan
Number of Valid Samples	4	Number of Unique Samples	4
Raw Statistics		Log-transformed Statistics	
Minimum	4.47	Minimum of Log Data	1.497
Maximum	7.34	Maximum of Log Data	1.993
Mean	5.813	Mean of log Data	1.742
Median	5.72	SD of log Data	0.22
SD	1.274	OD OF ROY DATE	U.LL
Coefficient of Variation	0.219		
Skewness	0.304		
			anne menten er kinne er gant et alla kilott
	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.97	Shapiro Wilk Test Statistic	0.974
Shapiro Wilk Critical Value	0.748	Shapiro Wilk Critical Value	0.748
Data appear Normal at 5% Significance Level	W	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution	and the state of t	Assuming Lognormal Distribution	
95% Student's-t UCL	7.312	95% H-UCL	8.384
95% UCLs (Adjusted for Skewness)	,.012	95% Chebyshev (MVUE) UCL	8.589
95% Adjusted-CLT UCL	6.964	97.5% Chebyshev (MVUE) UCL	9.79
95% Adjusted-CL1 OCL 95% Modified-t UCL	7.328	99% Chebyshev (MVUE) UCL	12.15
95% Modified-LUCE	7.320	99% Chebysnev (MVOE) UCL	12.15
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	7.11	Data appear Normal at 5% Significance Level	
Theta Star	0.817		uaran and desired all back
nu star	56.88		
Approximate Chi Square Value (.05)	40.55	Nonparametric Statistics	
Adjusted Level of Significance	N/A	95% CLT UCL	6.86
Adjusted Chi Square Value	N/A	95% Jackknife UCL	7.31
Adiaster Chi adiale value i			

Anderson-Darling Test Statistic	0.239	95% Bootstrap-t UCL	9.165
Anderson-Darling 5% Critical Value	0.657	95% Hall's Bootstrap UCL	8.868
Kolmogorov-Smirnov Test Statistic	0.223	95% Percentile Bootstrap UCL	6.785
Kolmogorov-Smirnov 5% Critical Value	0.394	95% BCA Bootstrap UCL	6.575
Data appear Gamma Distributed at 5% Significance I		95% Chebyshev(Mean, Sd) UCL	8.59
	-010,	97,5% Chebyshev(Mean, Sd) UCL	9.792
Assuming Gamma Distribution	-t	99% Chebyshev(Mean, Sd) UCL	12.15
95% Approximate Gamma UCL	8.154		
95% Adjusted Gamma UCL	N/A		Hala iga Mai ta agustat kista i et e e disea e e e e
Potential UCL to Use		Use 95% Student's-t UCL	7.312
Result or 1/2 SDL (trichloroethene)			
	General S	Statistics	
Number of Valid Samples	83	Number of Unique Samples	58
Raw Statistics	······································	Log-transformed Statistics	·
Minimum	4.0500E-5	Minimum of Log Data	-10.11
Maximum	0.034	Maximum of Log Data	-3.381
Mean	9.2984E-4	Mean of log Data	-8.979
Median	8.0500E-5	SD of log Data	1.34
SD	0.0039		
Coefficient of Variation	4.295		
Skewness	7.315		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.47	Lilliefors Test Statistic	0.421
Lilliefors Critical Value	0.0973		0.097
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	a talagata, A.S. a susukapat (A.S. a talagata) and talagata (A.S. a talagata). Also a substitution of the same	Assuming Lognormal Distribution	THE PROPERTY OF THE PARTY OF TH
95% Student's-t UCL	0.0016	95% H-UCL	4.5311E-4
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	5.5915E-4
95% Adjusted-CLT UCL	0.0020	97.5% Chebyshev (MVUE) UCL	6.6982E-4
95% Modified-t UCL	0.0017	99% Chebyshev (MVUE) UCL	8.8721E-4
Gamma Distribution Test	erren og en	Data Distribution	
k star (bias corrected)	0.334	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0027		
nu star	55.48		management of the province of the state of t
Approximate Chi Square Value (.05)	39.36	Nonparametric Statistics	The second secon
Adjusted Level of Significance	0.0471	` 95% CLT UCL	0.001
Adjusted Chi Square Value	39.12	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	23.85	95% Bootstrap-t UCL	0.003
Anderson-Darling 5% Critical Value	0.857	95% Hall's Bootstrap UCL	0.004
Kolmogorov-Smirnov Test Statistic	0.492	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.106	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.002

2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			
		97.5% Chebyshev(Mean, Sd) UCL	0.0036
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0052
95% Approximate Gamma UCL	0.0013		and a ferromation of four expenses of
95% Adjusted Gamma UCL	0.0013		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.0036
Result or 1/2 SDL (vanadium)			
	General S		
Number of Valid Samples	166	Number of Unique Samples	117
Day Oh Mala			
Raw Statistics	1 1 1	Log-transformed Statistics	
Minimum	4.73	Minimum of Log Data	1.554
Maximum	45.6	Maximum of Log Data	3.82
Mean	14.4	Mean of log Data	2.588
Median	13.75	SD of log Data	0.406
SD	5.905		
Coefficient of Variation	0.41		
Skewness	1.359		( <u></u>
F	Relevant UC	L Statistics	144-11-014316-10418-144-11-12F18-144
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.0803	Lilliefors Test Statistic	0.050
Lilliefors Critical Value	0.0688	Lilliefors Critical Value	0.068
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	15.16	95% H-UCL	15.27
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	16.5
95% Adjusted-CLT UCL	15.21	97.5% Chebyshev (MVUE) UCL	17.39
95% Modified-t UCL	15.17	99% Chebyshev (MVUE) UCL	19.14
Gamma Distribution Test		Data Distribution	eranavanakombolik kilonaki e laiku
k star (bias corrected)	6.31	Data appear Gamma Distributed at 5% Significance Lo	evel
Theta Star	2.283		
nu star	2095		
Approximate Chi Square Value (.05)	1989	Nonparametric Statistics	<b>1</b>
Adjusted Level of Significance	0.0486	95% CLT UCL	15.16
Adjusted Chi Square Value	1989	95% Jackknife UCL	15.16
		95% Standard Bootstrap UCL	15.16
Anderson-Darling Test Statistic	0.304	95% Bootstrap-t UCL	15.19
Anderson-Darling 5% Critical Value	0.754	95% Hall's Bootstrap UCL	15.26
Kolmogorov-Smirnov Test Statistic	0.0346	95% Percentile Bootstrap UCL	15.16
Kolmogorov-Smirnov 5% Critical Value	0.0725	95% BCA Bootstrap UCL	15.19
Data appear Gamma Distributed at 5% Significance	<u>l</u>	95% Chebyshev(Mean, Sd) UCL	16.4
		97.5% Chebyshev(Mean, Sd) UCL	17.27
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	18.96
95% Approximate Gamma UCL	15.17		
95% Adjusted Gamma UCL	15.17		V a to for the contract form and a sign contract to the first

Potential UCL to Use		Use 95% Approximate Gamma UCL	15.17
ult or 1/2 SDL (xylene (total))	-Montage Property and American Employee		
	General Sta	itistics	. 66. 25-2-1. 1. 25. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27
Number of Valid Samples	s 83	Number of Unique Samples	77
Raw Statistics	200000000000000000000000000000000000000	Log-transformed Statistics	man bahasal saragarayal katifirdas
Minimur	m 1.3050E-4	Minimum of Log Data	-8.94
Maximur	m 3.4	Maximum of Log Data	1.22
Mea	in 0.0479	Mean of log Data	-6.55
Media		SD of log Data	1.68
S			
Coefficient of Variation	n 7.807		
Skewnes	s 9.027		
position as a second of the se	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statisti	c 0.472	Lilliefors Test Statistic	0.19
Lilliefors Critical Value	e 0.0973	Lilliefors Critical Value	0.0
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	<b>, 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 </b>
95% Student's-t UCI	L 0.116	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCI	L 0.159	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCI		99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected	0.209	Data do not follow a Discernable Distribution (0.05)	······································
Theta Sta		Data do Not follow a Discernable Distribution (0.03)	} ~~~~~~~~~~~
nu sta			1-111-MER 11 111-11-11-11-11-11-11-11-11-11-11-11
Approximate Chi Square Value (.05)		Nonparametric Statistics	
Adjusted Level of Significance	1	95% CLT UCL	0.1
Adjusted Chi Square Value		95% Jackknife UCL	0.1
		95% Standard Bootstrap UCL	0.1
Anderson-Darling Test Statistic	18.38	95% Bootstrap-t UCL	1.8
Anderson-Darling 5% Critical Value		95% Hall's Bootstrap UCL	1.3
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL	0.1
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	0.1
Data not Gamma Distributed at 5% Significance L	i	95% Chebyshev(Mean, Sd) UCL	0.2
	<u> </u>	97.5% Chebyshev(Mean, Sd) UCL	0.3
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.4
95% Approximate Gamma UCL	0.0748		r mineral in the second
95% Adjusted Gamma UCL			
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.3

	Canada	Chatledian		
Number of Volid Opposite	General S		159	
Number of Valid Samples	166	Number of Unique Samples	109	
Raw Statistics	***************************************	Log-transformed Statistics		
, Minimum	6.17	Minimum of Log Data	1.82	
Maximum	7650	Maximum of Log Data	8.942	
Mean	433.8	Mean of log Data	5.141	
Median	192.5	SD of log Data	1.438	
SD	786.8			
Coefficient of Variation	1.814		######################################	
· Skewness	5.977			
r	Delevent LIC	DL Statistics	***************************************	
Normal Distribution Test	Relevant UC	Lognormal Distribution Test		
Lilliefors Test Statistic	0.293	Lilliefors Test Statistic	0.098	
Lilliefors Critical Value	0.293		0.068	
Data not Normal at 5% Significance Level	0.0000	Data not Lognormal at 5% Significance Level	0.000	
Data not Normal at 5% digitificance Level		Data not cognomia at 0 % oignificance cover		
Assuming Normal Distribution		Assuming Lognormal Distribution		
95% Student's-t UCL	534.8	95% H-UCL	640.1	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	793.9	
95% Adjusted-CLT UCL	564.5	97.5% Chebyshev (MVUE) UCL	932.2	
95% Modified-t UCL	539.6	99% Chebyshev (MVUE) UCL	1204	
Gamma Distribution Test		Data Distribution		
k star (bias corrected)	0.647	Data do not follow a Discernable Distribution (0.05)		
Theta Star	670.5	Data do not follow a Discernable Distribution (0.00	')	
nu star	214.8			
Approximate Chi Square Value (.05)	181.9	Nonparametric Statistics		
Adjusted Level of Significance	0.0486	articular ylas majassas samenteta forma samenteta forma yeta majassas forma forma forma samenteta forma form	534.3	
Adjusted Chi Square Value	181.6	95% Jackknife UCL	534.8	
Aujusteu Otii Square Value	101.0	95% Standard Bootstrap UCL	533.1	
Anderson-Darling Test Statistic	3.192	95% Bootstrap-t UCL	586.2	
Anderson-Darling 7est Statistic	0.805	95% Hall's Bootstrap UCL	949.7	
Kolmogorov-Smirnov Test Statistic	0.803	95% Percentile Bootstrap UCL	544.3	
Kolmogorov-Smirnov 5% Critical Value	0.111	95% BCA Bootstrap UCL	573.3	
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	700	
Data not dannia distributed at 3% Significance Le	Y G1	97.5% Chebyshev(Mean, Sd) UCL	815.2	
Assuming Gamma Distribution	and the second of the second o	99% Chebyshev(Mean, Sd) UCL	1041	
95% Approximate Gamma UCL	512.3	33 % Onebyshev(Mean, 30) OOL	1071	
95% Adjusted Gamma UCL	512.3			
Potential IIOI to Line		Lipo 07 EW Chabrishov (Massa Call LIC)	01F 7	
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	815.2	

## APPENDIX A-3

NORTH OF MARLIN SURFACE SOIL

	General UCL Statistics	for Full Data	i Sets	
User Selected Options		Plantage and the same fire the constant and the same services are same services and the same services and the same services and the same services are same services		
From File	J:\1352 - Gulfco Rl\risk\	eco\Tables fo	or Revisited SLERA\surface soil N or Marlin aug 2008.wst	
Full Precision	OFF			
Confidence Coefficient	95%			
umber of Bootstrap Operations	2000			
				# th
esult or 1/2 DL (2-methylnaphtha	lene)			·····
		General St	atietice	
Nur	nber of Valid Samples	18	Number of Unique Samples	15
agyan tankan da				(
Raw Sta	atistics		Log-transformed Statistics	
arraganistanas signigas signiga (percencia arraga) gagadi terhanas etamangan asagan es musis seperas asab	Minimum	0.005	Minimum of Log Data	-5.298
արդյունույն հետում անդարդիր իրանրական հետուսային իրանրական հետուսանական հայաստանում և հետուսանում և հետուսանու	Maximum	0.053	Maximum of Log Data	-2.937
oggatische Wilder jeden gemanntetter Det der	Mean	0.0123	Mean of log Data	-4.795
	Median	0.0059	SD of log Data	0.772
	SD	0.0148		
	Coefficient of Variation	1.21		
	Skewness	2.182		
		lelevant UCL	Statistics	
Normal Distri			Lognormal Distribution Test	et. wheter a section which the section is
Shap	oiro Wilk Test Statistic	0.528	Shapiro Wilk Test Statistic	0.605
Shap	iro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5%	Significance Level	***************************************	Data not Lognormal at 5% Significance Level	
Assuming Norm	al Distribution	2002	Assuming Lognormal Distribution	
3	95% Student's-t UCL	0.0184	95% H-UCL	0.017
95% UCLs (Adjust			95% Chebyshev (MVUE) UCL	0.020
` -	% Adjusted-CLT UCL	0.02	97.5% Chebyshev (MVUE) UCL	0.024
	95% Modified-t UCL	0.0187	99% Chebyshev (MVUE) UCL	0.032
		and the second s		
Gamma Distri		1.211	Data Distribution	·
	k star (bias corrected)		Data do not follow a Discernable Distribution (0.05	<i>)</i>
	Theta Star	0.0101		
	nu star	43.61		····
	hi Square Value (.05)	29.47	Nonparametric Statistics	
	Level of Significance	0.0357	95% CLT UCL	0.018
Adjus	ted Chi Square Value	28.35	95% Jackknife UCL	0.018
a postavita de posta de los especias por la come come de come con especia de come come de actual de come come			95% Standard Bootstrap UCL	0.017
	-Darling Test Statistic	3.817	95% Bootstrap-t UCL	0.024
	ling 5% Critical Value	0.758	95% Hall's Bootstrap UCL	0.017
	Smirnov Test Statistic	0.442	95% Percentile Bootstrap UCL	0.018
Kolmogorov-Smir	nov 5% Critical Value	0.208	95% BCA Bootstrap UCL	0.020
Data not Gamma Distributed	at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.027
			97.5% Chebyshev(Mean, Sd) UCL	0.034
Assuming Gamn	na Distribution		99% Chebyshev(Mean, Sd) UCL	0.047
95% Appro	oximate Gamma UCL	0.0182		
95% A	djusted Gamma UCL	0.0189		t entit en tinn in to maketa aumon ava benden.
	i i	1	1	

Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.02
sult or 1/2 DL (4,4'-dde)			
	General Sta		
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	hermonyke ja-ereske navykerna i roke hef
	1.9150E-4	Minimum of Log Data	-8.561
Maximum	, į	Maximum of Log Data	-4.206
Mean		Mean of log Data	-8.002
Median	2.1175E-4	SD of log Data	1.16
SD	0.0034		
Coefficient of Variation	2.898		
Skewness	4.099		
	Relevant UCL	Statistics	opposite production
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.324	Shapiro Wilk Test Statistic	0.52
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	0.0026	95% H-UCL	0.00
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0033	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0027	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.454	Data do not follow a Discernable Distribution (0.05)	)
Theta Star			
nu star	16.33		
Approximate Chi Square Value (.05)	8.194	Nonparametric Statistics	n.anungumbirHut-IIII
Adjusted Level of Significance	0.0357	95% CLT UCL	0.00
Adjusted Chi Square Value	7.645	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	4.607	95% Bootstrap-t UCL	0.01
Anderson-Darling 5% Critical Value	8.0	95% Hall's Bootstrap UCL	0.01
Kolmogorov-Smirnov Test Statistic	0.483	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	∍vel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0023		
	0.002		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.00

	General	Statistics	
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	7.4000E-5	Minimum of Log Data	-9.511
Maximum	0.0108	Maximum of Log Data	-4.528
Mean	0.0012	Mean of log Data	-7.956
Median	2.7225E-4	SD of log Data	1.604
SD	0.0026		
Coefficient of Variation	2.045	Y V	
Skewness	3.311		
		DL Statistics	
Normal Distribution Test	relevant oc	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.51	Shapiro Wilk Test Statistic	0.856
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Test Statistic	0.897
Data not Normal at 5% Significance Level	0.697	Data not Lognormal at 5% Significance Level	0.697
	······································	Data not assistant at 5% significance 2000.	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0023	95% H-UCL	0.005
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.003
95% Adjusted-CLT UCL	0.0027	97.5% Chebyshev (MVUE) UCL	0.004
95% Modified-t UCL	0.0024	99% Chebyshev (MVUE) UCL	0.006
Gamma Distribution Test	Parantantantantantantantantantantantantanta	Data Distribution	f=-ff
k star (bias corrected)	0.448	Data do not follow a Discernable Distribution (0.05	
Theta Star	0.0028		
nu star	16.14	# ala   1   1   1   1   1   1   1   1   1	
Approximate Chi Square Value (.05)	8.064	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	-	0.002
Adjusted Chi Square Value	7.52	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.002
Anderson-Darling Test Statistic	1.361	95% Bootstrap-t UCL	0.005
Anderson-Darling 5% Critical Value	0.801	95% Hall's Bootstrap UCL	0.006
Kolmogorov-Smirnov Test Statistic	0.238	95% Percentile Bootstrap UCL	0.002
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.003
		97.5% Chebyshev(Mean, Sd) UCL	0.005
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.007
95% Approximate Gamma UCL	0.0025		
95% Adjusted Gamma UCL	0.0027		
			# -
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.007
esult or 1/2 DL (acenaphthene)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	13
Raw Statistics		Log-transformed Statistics	
Minimum	0.005	Minimum of Log Data	-5.298

Maximum	0.157	Maximum of Log Data	-1.852
Mean	0.0161	Mean of log Data	-4.856
Median	0.0055		0.897
SD	0.0358		
Coefficient of Variation	2.227		
Skewness	4.027		
	Relevant UC	CL Statistics	
Normal Distribution Test '		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.344	Shapiro Wilk Test Statistic	0.518
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level	aladi i starebeta kuri ar kushbalar i ipili, o u reti.	Data not Lognormal at 5% Significance Level	1-11-1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Assuming Normal Distribution		Assuming Lognormal Distribution	€
95% Student's-t UCL	0.0307	95% H-UCL	0.020
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.022
95% Adjusted-CLT UCL	0.0385		0.027
95% Modified-t UCL	0.0383	99% Chebyshev (MVUE) UCL	0.027
33 % Mounted-t 00L	0.0321	33% Glebyshev (MVGE) GGE	0.007
Gamma Distribution Test		Data Distribution	were an emberolated about
k star (bias corrected)	0.717	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0224		
nu star	25.83		
Approximate Chi Square Value (.05)	15.25	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.029
Adjusted Chi Square Value	14.47	95% Jackknife UCL	0.030
		95% Standard Bootstrap UCL	0.029
Anderson-Darling Test Statistic	4.505	95% Bootstrap-t UCL	0.111
Anderson-Darling 5% Critical Value	0.775	95% Hall's Bootstrap UCL	0.114
and a market and a management of the control of the	0.773		0.032
Kolmogorov-Smirnov Test Statistic	0.479	95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	0.032
Kolmogorov-Smirnov 5% Critical Value			0.042
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	
		97.5% Chebyshev(Mean, Sd) UCL	0.068
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.099
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0272 0.0287		
	0.0207		P-44
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.052
Result or 1/2 DL (acenaphthylene)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	15
Raw Statistics	<b></b>	Log-transformed Statistics	
Minimum	0.0038	Minimum of Log Data	-5.562
Maximum	0.0555	Maximum of Log Data	-2.891
Mean	0.0099	Mean of log Data	-4.972
Median	0.0060	SD of log Data	0.693
SD	0.0131		
Coefficient of Variation	1.324		

Skewness	3.101		
	<u>[                                    </u>		
I	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.443	Shapiro Wilk Test Statistic	0.6
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	·····
95% Student's-t UCL	0.0153	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)	1	95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0174	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0157	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.325	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0074	Date do not foliow a Discernable Distribution (0.03)	
nu star	47.68		
Approximate Chi Square Value (.05)	32.83	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.0
Adjusted Chi Square Value	31.65	95% Jackknife UCL	0.0
Adjusted Off Square Value	31.03	95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	3.815	95% Bootstrap-t UCL	0.0
Anderson-Darling 7est Statistic  Anderson-Darling 5% Critical Value	0.756	95% Hall's Bootstrap UCL	0.0
	<u> </u>	, ,	
Kolmogorov-Smirnov Test Statistic	0.469	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.207	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0144 0.0149		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0
sult or 1/2 DL (aluminum)	The state of the s		
	General St	atistics	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	rajona i saranja Presi artendija
Minimum	1810	Minimum of Log Data	7.5
Maximum	16800	Maximum of Log Data	9.7
Mean	10673	Mean of log Data	9.1
Median	10300	SD of log Data	0.4
SD	3687		,
Coefficient of Variation Skewness	0.345 -0.368		
OROWI IG55	0.000		
	Relevant UCL		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.963	Shapiro Wilk Test Statistic	0.7

Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	00,000,000,000,000,000,000,000,000,000
Assuming Normal Distribution		Assuming Lognormal Distribution	an transmission about the continue
95% Student's-t UCL	12185	95% H-UCL	14135
95% UCLs (Adjusted for Skewness)	12103	95% Chebyshev (MVUE) UCL	16791
95% Adjusted for Skewness)  95% Adjusted-CLT UCL	12022	97.5% Chebyshev (MVUE) UCL	19299
95% Adjusted-CET OCE 95% Modified-t UCL	12172	99% Chebyshev (MVUE) UCL	24226
			y
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.015	Data appear Normal at 5% Significance Level	Period ( \$1, 2009 )
Theta Star	2128		
nu star	180.5		
Approximate Chi Square Value (.05)	150.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	-	12103
Adjusted Chi Square Value	147.8	95% Jackknife UCL	12185
		95% Standard Bootstrap UCL	12068
Anderson-Darling Test Statistic	0.664	95% Bootstrap-t UCL	12127
Anderson-Darling 5% Critical Value	0.742	95% Hall's Bootstrap UCL	12096
Kolmogorov-Smirnov Test Statistic	0.162	95% Percentile Bootstrap UCL	12042
Kolmogorov-Smirnov 7est Statistic	0.102	95% BCA Bootstrap UCL	11983
			14461
Data appear Gamma Distributed at 5% Significance	Levei	95% Chebyshev(Mean, Sd) UCL	
		97.5% Chebyshev(Mean, Sd) UCL	16100
Assuming Gamma Distribution	ş	99% Chebyshev(Mean, Sd) UCL	19319
95% Approximate Gamma UCL	12807		
95% Adjusted Gamma UCL	13035		·
Potential UCL to Use		Use 95% Student's-t UCL	12185
Result or 1/2 DL (anthracene)			
	General		
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	0.0037	Minimum of Log Data	-5.594
Maximum	0.264	Maximum of Log Data	-1.332
Mean	0.0257	Mean of log Data	-4.612
Median	0.0061	SD of log Data	1.09
SD	0.0609		
Coefficient of Variation	2.366		and the factor of the second second
Skewness	3.946		
F Normal Distribution Test	Relevant UC	CL Statistics Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.38	Shapiro Wilk Test Statistic	0.67
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Test statistic	0.89
Data not Normal at 5% Significance Level	0.897	Data not Lognormal at 5% Significance Level	۷.09
**************************************			n
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0507	95% H-UCL	0.03

			10,240
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.038
95% Adjusted-CLT UCL	0.0636	97.5% Chebyshev (MVUE) UCL	0.048
95% Modified-t UCL	0.0529	99% Chebyshev (MVUE) UCL	0.066
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.573	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	0.0449		
nu star	20.61	and an arrange of the state of	
Approximate Chi Square Value (.05)	11.3	Nonparametric Statistics	Mayella lakerela la 1911 - year His
Adjusted Level of Significance	0.0357	95% CLT UCL	0.04
Adjusted Chi Square Value	10.64	95% Jackknife UCL	0.05
		95% Standard Bootstrap UCL	0.04
Anderson-Darling Test Statistic	3.451	95% Bootstrap-t UCL	0.14
Anderson-Darling 5% Critical Value	0.787	95% Hall's Bootstrap UCL	0.12
Kolmogorov-Smirnov Test Statistic	0.402	95% Percentile Bootstrap UCL	0.05
Kolmogorov-Smirnov 5% Critical Value	0.213	95% BCA Bootstrap UCL	0.07
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.08
		97.5% Chebyshev(Mean, Sd) UCL	0.11
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.16
95% Approximate Gamma UCL	0.0469	,	
95% Adjusted Gamma UCL	0.0498		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.16
ult or 1/2 DL (antimony)	General Stat	ietics	
	General Stat		14
Number of Valid Samples	General Stat	tistics  Number of Unique Samples	14
			14
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	18	Number of Unique Samples  Log-transformed Statistics	-2.354
Number of Valid Samples  Raw Statistics  Minimum	0.095	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-2.354 2.09
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.095	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-2.354 2.09 -0.535
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.095 8.09 1.744	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-2.354 2.09 -0.535
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.095 8.09 1.744 0.893	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-2.354 2.09 -0.535
Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.095 8.09 1.744 0.893 2.146	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-2.354 2.09 -0.535 1.72
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.095 8.09 1.744 0.893 2.146 1.231 1.659	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-2.354 2.09 -0.535
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.095 8.09 1.744 0.893 2.146 1.231	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-2.354 2.09 -0.535
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.095 8.09 1.744 0.893 2.146 1.231 1.659	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-2.354 2.09 -0.535 1.72
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	0.095 8.09 1.744 0.893 2.146 1.231 1.659	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-2.354 2.09 -0.535 1.72
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.095 8.09 1.744 0.893 2.146 1.231 1.659	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-2.354 2.09 -0.535
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.095 8.09 1.744 0.893 2.146 1.231 1.659	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-2.354 2.09 -0.535 1.72
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.095 8.09 1.744 0.893 2.146 1.231 1.659 Relevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-2.354 2.09 -0.535 1.72 0.77 0.89
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.095 8.09 1.744 0.893 2.146 1.231 1.659	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-2.354 2.09 -0.535 1.72 0.77 0.89
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.095 8.09 1.744 0.893 2.146 1.231 1.659  Relevant UCL S 0.768 0.897	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-2.354 2.09 -0.535 1.72 0.77 0.89
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	0.095 8.09 1.744 0.893 2.146 1.231 1.659  Relevant UCL S 0.768 0.897	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-2.354 2.09 -0.535 1.72 0.77 0.89
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.095 8.09 1.744 0.893 2.146 1.231 1.659  Relevant UCL S 0.768 0.897	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-2.354 2.09 -0.535 1.72 0.77 0.89

k star (bias corrected)	0.512	Data do not follow a Discernable Distribution (0.05	)
Theta Star	3.403		
nu star	18.45		
Approximate Chi Square Value (.05)	9.713	Nonparametric Statistics	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Adjusted Level of Significance	0.0357	95% CLT UCL	2.576
Adjusted Chi Square Value	9.109	95% Jackknife UCL	2.624
		95% Standard Bootstrap UCL	2.581
Anderson-Darling Test Statistic	1.671	95% Bootstrap-t UCL	3.048
Anderson-Darling 5% Critical Value	0.794	95% Hall's Bootstrap UCL	3.327
Kolmogorov-Smirnov Test Statistic	0.321	95% Percentile Bootstrap UCL	2.6
Kolmogorov-Smirnov 5% Critical Value	0.214	95% BCA Bootstrap UCL	2.801
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	3.949
		97.5% Chebyshev(Mean, Sd) UCL	4.903
Assuming Gamma Distribution	and the second s	99% Chebyshev(Mean, Sd) UCL	6.777
95% Approximate Gamma UCL	3.311		
95% Adjusted Gamma UCL	3.531		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	6.777
Result or 1/2 DL (aroclor-1254)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	0.0019	Minimum of Log Data	-6.258
Maximum	0.0155	Maximum of Log Data	-4.167
Mean	0.0037	Mean of log Data	-5.839
Median	0.0021	SD of log Data	0.633
SD	0.0038		
Coefficient of Variation	1.01		
Skewness	2.557		
	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.541	Shapiro Wilk Test Statistic	0.674
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level	get offers offer miss designations	Data not Lognormal at 5% Significance Level	**************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0053	95% H-UCL	0.004
95% UCLs (Adjusted for Skewness)	Atomica and a second	95% Chebyshev (MVUE) UCL	0.005
95% Adjusted-CLT UCL	0.0058	97.5% Chebyshev (MVUE) UCL	0.006
95% Modified-t UCL	0.0054	99% Chebyshev (MVUE) UCL	0.008
Gamma Distribution Test		Data Distribution	-41-11
k star (bias corrected)	1.76	Data do not follow a Discernable Distribution (0.05	)
,	0.0021		
Theta Star	0.0021		
Theta Star nu star	63.37		#*************************************
appropriet de la company de la compa		Nonparametric Statistics	

Adjusted Chi Square Volue	44.64	95% Jackknife UCL	0.005
Adjusted Chi Square Value	44.64		
Andrew D. H. Trad Outline	0.054	95% Standard Bootstrap UCL	0.005
Anderson-Darling Test Statistic	2.954	95% Bootstrap-t UCL	0.009
Anderson-Darling 5% Critical Value	0.752	95% Hall's Bootstrap UCL	0.011
Kolmogorov-Smirnov Test Statistic	0.342	95% Percentile Bootstrap UCL	0.005
Kolmogorov-Smirnov 5% Critical Value	0.206	95% BCA Bootstrap UCL	0.005
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.007
	***************************************	97.5% Chebyshev(Mean, Sd) UCL	0.009
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.012
95% Approximate Gamma UCL	0.0052		****
95% Adjusted Gamma UCL	0.0053		
Potential UCL to Use	and the second s	Use 95% Chebyshev (Mean, Sd) UCL	0.007
sult or 1/2 DL (arsenic)			
	General S	Statistics	TIPAMININA TIPAMININA TIPAMI
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	0.34	Minimum of Log Data	-1.079
Maximum	5.69	Maximum of Log Data	1.739
Mean	2,522	Mean of log Data	0.778
Median	2.525	SD of log Data	0.654
SD	1.164		
Coefficient of Variation	0.461		
Skewness	0.663		
		N. Ol-Carlan	
Normal Distribution Test	(elevant UC	CL Statistics  Lognormal Distribution Test	
	0.004		0.77
Shapiro Wilk Test Statistic	0.904	Shapiro Wilk Test Statistic	0.773
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	2.999	95% H-UCL	3.82
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	4.540
95% Adjusted-CLT UCL	3.019	97.5% Chebyshev (MVUE) UCL	5.362
95% Modified-t UCL	3.006	99% Chebyshev (MVUE) UCL	6.96
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3	Data appear Normal at 5% Significance Level	
Theta Star	0.841		
nu star	108		
Approximate Chi Square Value (.05)	85.02	Nonparametric Statistics	v
Adjusted Level of Significance	0.0357	95% CLT UCL	2.97
Adjusted Chi Square Value	83.06	95% Jackknife UCL	2.99
	. 17 ( ) 4 ( 4 ( 4 ( 4 ( 4 ( 4 ( 4 ( 4 ( 4 (	95% Standard Bootstrap UCL	2.96
Anderson-Darling Test Statistic	1.238	95% Bootstrap-t UCL	3.06
Anderson-Darling 5% Critical Value	0.744	95% Hall's Bootstrap UCL	3.23
Kolmogorov-Smirnov Test Statistic	0,215	95% Percentile Bootstrap UCL	2.938

Kolmogorov-Smirnov 5% Critical Value	0.205	95% BCA Bootstrap UCL	2.979
Data not Gamma Distributed at 5% Significance Le		95% BCA BOOISITAP UCL 95% Chebyshev(Mean, Sd) UCL	3.718
Data not Gamma Distributed at 3% Significance Le	T T	97.5% Chebyshev(Mean, Sd) UCL	4.235
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	5.25
95% Approximate Gamma UCL	3,204	33 % Chebyshev (Mean, 30) OCL	3.23
95% Adjusted Gamma UCL	3.204		
33/8 Adjusted Gariffa OCL	3.20		ra vo kravi gozdani i i i i i i i i i i i i i i i i i i
Potential UCL to Use		Use 95% Student's-t UCL	2.999
esult or 1/2 DL (barium)			
	General St	atistics	
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	
Minimum	46.1	Minimum of Log Data	3.83
Maximum	476	Maximum of Log Data	6.16
Mean	145.2	Mean of log Data	4.78
Median	114	SD of log Data	0.59
SD	115.8		
Coefficient of Variation	0.798		
Skewness	2.357		
Danapan viranin da anata ka a	Relevant UCL	Statistics	
Normal Distribution Test	<u> </u>	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.641	Shapiro Wilk Test Statistic	0.88
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	192.6	95% H-UCL	192.6
95% UCLs (Adjusted for Skewness)	132.0	95% Chebyshev (MVUE) UCL	229.8
95% Adjusted-CLT UCL	206.3	97.5% Chebyshev (MVUE) UCL	268.4
95% Modified-t UCL	195.2	99% Chebyshev (MVUE) UCL	344.2
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	2.308	Data do not follow a Discernable Distribution (0.05	)
Theta Star	62.88		
nu star	83.1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Approximate Chi Square Value (.05)	63.09	Nonparametric Statistics	**************************************
Adjusted Level of Significance	0.0357	95% CLT UCL	190.1
Adjusted Chi Square Value	61.42	95% Jackknife UCL	192.6
	· Parameter support	95% Standard Bootstrap UCL	188.9
Anderson-Darling Test Statistic	1.375	95% Bootstrap-t UCL	291.7
Anderson-Darling 5% Critical Value	0.748	95% Hall's Bootstrap UCL	491.8
Kolmogorov-Smirnov Test Statistic	0.275	95% Percentile Bootstrap UCL	192.6
Kolmogorov-Smirnov 5% Critical Value	0.205	95% BCA Bootstrap UCL	203.6
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	264.2
		97.5% Chebyshev(Mean, Sd) UCL	315.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	416.8
95% Approximate Gamma UCL	191.2		

95% Adjusted Gamma UCL	196.4	and the section of th	* ; :::::::::::::::::::::::::::::::::::
John Aujusted Gainnia GGE	130.7		18a ali 1888 (1845) (1845) (1845) (1845) (1845) (1845) (1845)
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	264.2
ult or 1/2 DL (benzo(a)anthracene)			
	General Stati	ilstics	
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics	***************************************	Log-transformed Statistics	war and the statement of the statement o
Minimum	0.0025	Minimum of Log Data	-5.98
Maximum	1.18	Maximum of Log Data	0.1
Mean	0.0715	Mean of log Data	-4.97
Median	0.0055	SD of log Data	1.3
SD	0.277		
Coefficient of Variation	3.872		
Skewness	4.239		•11
L			***************************************
	Relevant UCL S		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.264	Shapiro Wilk Test Statistic	0.5
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	.,
95% Student's-t UCL	0.185	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.248	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.196	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test	and the same of th	Data Distribution	
k star (bias corrected)	0.284	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	0.252		
nu star	10.21		
Approximate Chi Square Value (.05)	4.075	Nonparametric Statistics	produced to the Control
Adjusted Level of Significance	0.0357	95% CLT UCL	0.
Adjusted Chi Square Value	3.71	95% Jackknife UCL	0.
		95% Standard Bootstrap UCL	0.
Anderson-Darling Test Statistic	5.324	95% Bootstrap-t UCL	14.
Anderson-Darling 5% Critical Value	0.844	95% Hall's Bootstrap UCL	7.3
	0.52	95% Percentile Bootstrap UCL	0.2
Kolmogorov-Smirnov Test Statistic		95% BCA Bootstrap UCL	0.2
Kolmogorov-Smirnov 5% Critical Value	0.221		0.3
		95% Chebyshev(Mean, Sd) UCL	
Kolmogorov-Smirnov 5% Critical Value  Data not Gamma Distributed at 5% Significance Lev		97.5% Chebyshev(Mean, Sd) UCL	0.4
Kolmogorov-Smirnov 5% Critical Value  Data not Gamma Distributed at 5% Significance Lev  Assuming Gamma Distribution	/el		0.4
Kolmogorov-Smirnov 5% Critical Value  Data not Gamma Distributed at 5% Significance Lev  Assuming Gamma Distribution  95% Approximate Gamma UCL	vel 0.179	97.5% Chebyshev(Mean, Sd) UCL	0.4
Kolmogorov-Smirnov 5% Critical Value  Data not Gamma Distributed at 5% Significance Lev  Assuming Gamma Distribution	/el	97.5% Chebyshev(Mean, Sd) UCL	0.4

	General S		
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	. V. 674-144-17-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Minimum	0.0045	Minimum of Log Data	-5.403
Maximum	1.42	Maximum of Log Data	0.351
Mean	0.114	Mean of log Data	-4.036
Median	0.0057	SD of log Data	1.734
SD	0.33	O O O O D CALL	
Coefficient of Variation	2.903		
Skewness	4.073		>t
	·	,	**************************************
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	1944 - 1 <b>41</b> 1988
Shapiro Wilk Test Statistic	0.36	Shapiro Wilk Test Statistic	0.746
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.249	95% H-UCL	0.405
95% UCLs (Adjusted for Skewness)	0.2.10	95% Chebyshev (MVUE) UCL	0.209
95% Adjusted-CLT UCL	0.322	97.5% Chebyshev (MVUE) UCL	0.27
95% Modified-t UCL	0.262	99% Chebyshev (MVUE) UCL	0.391
Gamma Distribution Test		Data Distribution	71.411 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1
k star (bias corrected)	0.337	Data do not follow a Discernable Distribution (0.05)	·······
Theta Star	0.337	Data do not follow a Discernable Distribution (0.00)	<i>,</i>
nu star	12.12		
Approximate Chi Square Value (.05)	5.306	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.242
Adjusted Chi Square Value	4.879	95% Jackknife UCL	0.249
Adjusted Offi Oquale Value	4.073	95% Standard Bootstrap UCL	0.239
Anderson-Darling Test Statistic	2.633	95% Bootstrap-t UCL	0.832
Anderson-Darling 5% Critical Value	0.83	95% Hall's Bootstrap UCL	0.709
Kolmogorov-Smirnov Test Statistic	0.345	95% Percentile Bootstrap UCL	0.264
Kolmogorov-Smirnov 5% Critical Value	0.219	95% BCA Bootstrap UCL	0.353
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	0.453
Data not danna Distributed at 5% digital cancer Le	<b>10</b> 1	97.5% Chebyshev(Mean, Sd) UCL	0.400
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.888
95% Approximate Gamma UCL	0.26		
95% Adjusted Gamma UCL	0.283		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.888
THE PROPERTY OF THE REST AND THE PROPERTY OF T	584 14-15-15-15-15-15-15-15-15-15-15-15-15-15-	a - FFFFAN SANDERS AND THE FEE SAND HAVE AND HAVE AND AND AND THE SECOND FROM STORY FEED AND AND AND AND AND AND AND AND AND AN	
esult or 1/2 DL (benzo(b)fluoranthene)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	17
. tall bol of talla calliples		Tamber of Offique Campion	

Raw Statistics		Log-transformed Statistics	
Minimum	0.0036		-5.625
Maximum	1.62	Maximum of Log Data	0.482
Mean	0.146	Mean of log Data	-3.661
Median	0.0228		1.923
SD	0.374		
Coefficient of Variation	2.566		
Skewness	4.004		
R	elevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	geligan gaggerent van Robert spoksk sachte
Shapiro Wilk Test Statistic	0.398	Shapiro Wilk Test Statistic	0.858
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.299	95% H-UCL	1.165
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.436
95% Adjusted-CLT UCL	0.38	97.5% Chebyshev (MVUE) UCL	0.569
95% Modified-t UCL	0.313	99% Chebyshev (MVUE) UCL	0.829
Gamma Distribution Test	H-1811-113-111-111-1-1-1-1-1-1-1-1-1-1-1-	Data Distribution	
k star (bias corrected)	0.355	Data Follow Appr. Gamma Distribution at 5% Significance	e Level
Theta Star	0.411		
nu star	12.79		
Approximate Chi Square Value (.05)	5.752	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	-	0.291
Adjusted Chi Square Value	5,305	95% Jackknife UCL	0.299
		95% Standard Bootstrap UCL	0.287
Anderson-Darling Test Statistic	1.361	95% Bootstrap-t UCL	0.79
Anderson-Darling 5% Critical Value	0.825	95% Hall's Bootstrap UCL	0.816
Kolmogorov-Smirnov Test Statistic	0.215	95% Percentile Bootstrap UCL	0.32
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	0.412
ata follow Appr. Gamma Distribution at 5% Significance		95% Chebyshev(Mean, Sd) UCL	0.531
		97.5% Chebyshev(Mean, Sd) UCL	0.697
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.024
95% Approximate Gamma UCL	0.324		
95% Adjusted Gamma UCL	0.352		
Potential UCL to Use		Use 95% Adjusted Gamma UCL	0.352
Potential UCL to Use sult or 1/2 DL (benzo(g,h,i)perylene)			0.35
Number of Valid Samples	General S 18	Number of Unique Samples	16
Raw Statistics	na nionipitang menana assure maakan	Log-transformed Statistics	
Minimum	0.0051		-5.269
Maximum	1.28	Maximum of Log Data	0.247
Mean	0.132	Mean of log Data	-3.564

	1.05		
SD	0.303		166
Coefficient of Variation	2.288		
Skewness	3.593		
JAEWIIESS	3.393		
F	Relevant UC	Statistics	
Normal Distribution Test	10.0va.n. 00	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.468	Shapiro Wilk Test Statistic	0.86
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level	0.007	Data not Lognormal at 5% Significance Level	
		Data not cognomicato o Organicano Costa	
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	0.256	95% H-UCL	0.69
95% UCLs (Adjusted for Skewness)	0.200	95% Chebyshev (MVUE) UCL	0.34
95% Adjusted-CLT UCL	0.314	97.5% Chebyshev (MVUE) UCL	0.45
95% Modified-t UCL	0.267	99% Chebyshev (MVUE) UCL	0.45
3070 Modifica-t Cold	0.207	3378 Chebyshev (WVOL) COL	0.00
Gamma Distribution Test		Data Distribution	· ····
k star (bias corrected)	0.39	Data do not follow a Discernable Distribution (0.05)	······································
Theta Star	0,34		<i>'</i>
nu star	14.03		
Approximate Chi Square Value (.05)	6.589	Nonparametric Statistics	····
Adjusted Level of Significance	0.0357	95% CLT UCL	0.25
Adjusted Chi Square Value	6,105	95% Jackknife UCL	0.25
/ Majaries of oqual value	0,100	95% Standard Bootstrap UCL	0.24
Anderson-Darling Test Statistic	1.426	95% Bootstrap-t UCL	0.56
Anderson-Darling 5% Critical Value	0.816	95% Hall's Bootstrap UCL	0.62
Kolmogorov-Smirnov Test Statistic	0.237	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 7est Statistic	0.237	95% BCA Bootstrap UCL	0.23
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	0.44
Data not danna Distributed at 5% diginicance Le	vei	97.5% Chebyshev(Mean, Sd) UCL	0.57
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.84
95% Approximate Gamma UCL	0.282	33 % Chebyshev (Weah, Su) CCL	0.04
95% Adjusted Gamma UCL	0.304		***************
93 % Adjusted Gaillina OCL	0.304		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.84
i dental del to da		336 33 % Gliebyshev (Medil, ed) CCL	0.01
esult or 1/2 DL (benzo(k)fluoranthene)			
Number of Valid Samples	General S	tatistics  Number of Unique Samples	15
Number of Valid Samples	18	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	0.0055	Minimum of Log Data	-5.203
Maximum	0.799	Maximum of Log Data	-0.224
Mean	0.0689	Mean of log Data	-4.07
Median	0.0087	SD of log Data	1.38
SD	0.186		verking.ofcotolkide.i-++
Coefficient of Variation	2.698		
<b>,</b>	1	:	

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	1	
Shapiro Wilk Test Statistic	0.374	Shapiro Wilk Test Statistic	0.71	
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89	
Data not Normal at 5% Significance Level	-	Data not Lognormal at 5% Significance Level		
	1			
Assuming Normal Distribution		Assuming Lognormal Distribution		
95% Student's-t UCL	0.145	95% H-UCL	0.13	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.10	
95% Adjusted-CLT UCL	0.185	97.5% Chebyshev (MVUE) UCL	0.13	
95% Modified-t UCL	0.152	99% Chebyshev (MVUE) UCL	0.19	
Gamma Distribution Test		Data Distribution		
k star (bias corrected)	0.421	Data do not follow a Discernable Distribution (0.05)		
Theta Star	0.164			
nu star	15.17			
Approximate Chi Square Value (.05)	7.377	Nonparametric Statistics		
Adjusted Level of Significance	0.0357	95% CLT UCL	0.14	
Adjusted Chi Square Value	6.86	95% Jackknife UCL	0.14	
		95% Standard Bootstrap UCL	0.13	
Anderson-Darling Test Statistic	3.135	95% Bootstrap-t UCL	0.53	
Anderson-Darling 5% Critical Value	0.808	95% Hall's Bootstrap UCL	0.40	
Kolmogorov-Smirnov Test Statistic	0.418	95% Percentile Bootstrap UCL	0.15	
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.20	
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.26	
		97.5% Chebyshev(Mean, Sd) UCL	0.34	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.50	
95% Approximate Gamma UCL	0.142			
95% Adjusted Gamma UCL	0.152			
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.50	
esult or 1/2 DL (beryllium)				
	General S			
Number of Valid Samples	18	Number of Unique Samples	16	
Raw Statistics	a salahan	Log-transformed Statistics		
Minimum ]	0.013	Minimum of Log Data	-4.343	
Maximum	2.88	Maximum of Log Data	1.05	
Mean	0.708	Mean of log Data	-0.74	
Median	0.645	SD of log Data	1.17	
SD	0.604			
Coefficient of Variation	0.854			
Skewness	2.849			
	elevant UCI			
Normal Distribution Test		Lognormal Distribution Test		
Shapiro Wilk Test Statistic	0.673	Shapiro Wilk Test Statistic	0.74	
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89	
Data not Normal at 5% Significance Level	ur y medicalego.	Data not Lognormal at 5% Significance Level		

Assuming Normal Distribution	eredesir edit	Assuming Lognormal Distribution	
95% Student's-t UCL	0,956	95% H-UCL	2,17
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2.11
95% Adjusted-CLT UCL	1.044	97.5% Chebyshev (MVUE) UCL	2.64
95% Modified-t UCL	0.972	99% Chebyshev (MVUE) UCL	3.68
Gamma Distribution Test	4.040	Data Distribution	
k star (bias corrected)	1.213	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.584		7.67.484.W.4.1.444.W.444
nu star	43.65	Name and Order	
Approximate Chi Square Value (.05)	29.5	Nonparametric Statistics	0.94
Adjusted Level of Significance	0.0357	95% CLT UCL	
Adjusted Chi Square Value	28.39	95% Jackknife UCL	0.95
	4.404	95% Standard Bootstrap UCL	0.93
Anderson-Darling Test Statistic	1.404	95% Bootstrap-t UCL	1.12
Anderson-Darling 5% Critical Value	0.758	95% Hall's Bootstrap UCL	2.05
Kolmogorov-Smirnov Test Statistic	0.251	95% Percentile Bootstrap UCL	0.95
Kolmogorov-Smirnov 5% Critical Value	0.208	95% BCA Bootstrap UCL	1.03
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	1.32
		97.5% Chebyshev(Mean, Sd) UCL	1.59
Assuming Gamma Distribution	<b>4</b> 11.11.21.41.41.41.41.41.41.41.41.41.41.41.41.41	99% Chebyshev(Mean, Sd) UCL	2.12
95% Approximate Gamma UCL	1.047		
95% Adjusted Gamma UCL	1.088		
Potential UCL to Use  It or 1/2 DL (bis(2-ethylhexyl)phthalate)		Use 99% Chebyshev (Mean, Sd) UCL	2.12
	General Sta		2.12
	General Sta		2.12
t or 1/2 DL (bis(2-ethylhexyl)phthalate)	g-1171. h. 114	atistics	
t or 1/2 DL (bis(2-ethylhexyl)phthalate)  Number of Valid Samples	g-1171. h. 114	Number of Unique Samples	18
t or 1/2 DL (bis(2-ethylhexyl)phthalate)  Number of Valid Samples  Raw Statistics	18	Number of Unique Samples  Log-transformed Statistics	18
t or 1/2 DL (bis(2-ethylhexyl)phthalate)  Number of Valid Samples  Raw Statistics  Minimum	0.0122	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-4.40¢
t or 1/2 DL (bis(2-ethylhexyl)phthalate)  Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0122 0.239	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-4.400 -1.43°
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0122 0.239 0.0462	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-4.400 -1.43°
t or 1/2 DL (bis(2-ethylhexyl)phthalate)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0122 0.239 0.0462 0.0302	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-4.400 -1.43°
t or 1/2 DL (bis(2-ethylhexyl)phthalate)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0122 0.239 0.0462 0.0302 0.0502	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-4.400 -1.431 -3.333
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.400 -1.43°
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	0.0122 0.239 0.0462 0.0302 0.0502 1.087	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.400 -1.43° -3.333
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-4.406 -1.43° -3.333 0.63
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Atistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-4.400 -1.431 -3.333 0.63
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Atistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-4.400 -1.43* -3.333 0.63
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-4.400 -1.43 -3.333 0.63
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679 Relevant UCL 3	Atistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-4.406 -1.431 -3.333 0.63
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679	Atistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-4.400 -1.431 -3.333 0.63 0.89
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0122 0.239 0.0462 0.0302 0.0502 1.087 3.679 Relevant UCL 3	Atistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	

0		N-1- N:1.:1. ·	
Gamma Distribution Test	170	Data Distribution	.,
k star (bias corrected)	1.78 0.0259	Data do not follow a Discernable Distribution (0.05)	
Theta Star	64.09		n Fan via 1864 - 1864 - 1874 -
nu star	46.67	Nonparametric Statistics	
Approximate Chi Square Value (.05)  Adjusted Level of Significance	0.0357	95% CLT UCL	0.06
Adjusted Level of Significance  Adjusted Chi Square Value	45.25	95% CET UCL	0.00
Adjusted Citi Square value	45.25	95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	1.396	95% Standard Bootstrap OCL 95% Bootstrap-t UCL	0.00
Anderson-Darling 7est Statistic  Anderson-Darling 5% Critical Value	0.752	95% Hall's Bootstrap UCL	0.10
		95% Percentile Bootstrap UCL	0.1
Kolmogorov-Smirnov Test Statistic	0.211	· · · · · · · · · · · · · · · · · · ·	0.0
Kolmogorov-Smirnov 5% Critical Value	0.206	95% BCA Bootstrap UCL	
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.09
		97.5% Chebyshev(Mean, Sd) UCL	0.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.1
95% Approximate Gamma UCL	0.0634		· w
95% Adjusted Gamma UCL	0.0654		
Potential UCL to Use	al injunction	Use 95% Chebyshev (Mean, Sd) UCL	0.0
			18
Raw Statistics	0.555	Log-transformed Statistics	
Minimum	0.555	Minimum of Log Data	-0.58
Minimum Maximum	39.2	Minimum of Log Data   Maximum of Log Data	-0.58 3.6
Minimum Maximum Mean	39.2 8.028	Minimum of Log Data  Maximum of Log Data  Mean of log Data	-0.58 3.6 1.3
Minimum Maximum Mean Median	39.2 8.028 5.12	Minimum of Log Data   Maximum of Log Data	-0.58 3.6 1.3
Minimum Maximum Mean Median SD	39.2 8.028 5.12 9.477	Minimum of Log Data  Maximum of Log Data  Mean of log Data	-0.58 3.6 1.3
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation	39.2 8.028 5.12 9.477 1.18	Minimum of Log Data  Maximum of Log Data  Mean of log Data	-0.58 3.6 1.3
Minimum Maximum Mean Median SD	39.2 8.028 5.12 9.477	Minimum of Log Data  Maximum of Log Data  Mean of log Data	-0.58 3.6 1.3
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	39.2 8.028 5.12 9.477 1.18	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-0.58 3.60 1.33
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test	39.2 8.028 5.12 9.477 1.18 2.32	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-0.58 3.66 1.3 1.3
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	39.2 8.028 5.12 9.477 1.18 2.32 Relevant UCL \$	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-0.58 3.6 1.3 1.3
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	39.2 8.028 5.12 9.477 1.18 2.32	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-0.58 3.6 1.3 1.3
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	39.2 8.028 5.12 9.477 1.18 2.32 Relevant UCL \$	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-0.58 3.6 1.3 1.3
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	39.2 8.028 5.12 9.477 1.18 2.32 Relevant UCL \$	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-0.58 3.6 1.3 1.3
MinImum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	39.2 8.028 5.12 9.477 1.18 2.32 Relevant UCL \$	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-0.58 3.60 1.33 1.3 0.83 0.89
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	39.2 8.028 5.12 9.477 1.18 2.32 Relevant UCL S 0.742 0.897	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-0.583 3.60 1.33 1.37
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	39.2 8.028 5.12 9.477 1.18 2.32 Relevant UCL S 0.742 0.897	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-0.58 3.6 1.3 1.3 0.8 0.8
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	39.2 8.028 5.12 9.477 1.18 2.32 Relevant UCL S 0.742 0.897	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-0.58 3.6 1.3 1.3 0.8 0.8 29.9 24.5 31.1
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	39.2 8.028 5.12 9.477 1.18 2.32 Selevant UCL S 0.742 0.897	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-0.58 3.6 1.3 1.3 0.8 0.8 29.9 24.5 31.1
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	39.2 8.028 5.12 9.477 1.18 2.32 Relevant UCL S 0.742 0.897 11.91 13.01 12.12	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-0.58 3.6 1.3 1.3 0.8 0.8 29.9 24.5 31.1 44.1
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	39.2 8.028 5.12 9.477 1.18 2.32 Selevant UCL S 0.742 0.897	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-0.58 3.6 1.3 1.3 0.8 0.8 29.9 24.5 31.1 44.1

Approximate Chi Spurse Volum (OE)	15.81	Non-report Continue	
Approximate Chi Square Value (.05)		Nonparametric Statistics 95% CLT UCL	11.7
Adjusted Level of Significance Adjusted Chi Square Value	0.0357	95% Jackknife UCL	11.7
Adjusted Cni Square Value	15.01	95% Standard Bootstrap UCL	11.67
Andarran Dading Took Challed	0.516	95% Standard Bootstrap OCL	15.02
Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value	0.516	95% Bootstrap-t OCL	27.35
Kolmogorov-Smirnov Test Statistic	0.774	95% Percentile Bootstrap UCL	12.15
	0.174	95% BCA Bootstrap UCL	13.52
Kolmogorov-Smirnov 5% Critical Value		95% Chebyshev(Mean, Sd) UCL	17.76
Data appear Gamma Distributed at 5% Significance L	-evei	97.5% Chebyshev(Mean, Sd) UCL	21.98
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	30.25
	13.49	99% Chebyshev (Mean, 3d) OCL	30.23
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	14.2		
95% Adjusted Gamma OCL	14.2		
Potential UCL to Use		Use 95% Approximate Gamma UCL	13.49
Result or 1/2 DL (butyl benzyl phthalate)			
	General S	Statistics	and the second section of the second section of
Number of Valid Samples	18	Number of Unique Samples	17
***			
Raw Statistics		Log-transformed Statistics	
Minimum	0.0045	Minimum of Log Data	-5.389
Maximum	0.151	Maximum of Log Data	-1.89
Mean	0.016	Mean of log Data	-4.8
Median	0.0067	SD of log Data	0.851
SD	0.0344		
Coefficient of Variation	2.146		
Skewness	3.972		
	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.344	Shapiro Wilk Test Statistic	0.543
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level	A SAME AND	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0302	95% H-UCL	0.019
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.022
95% Adjusted-CLT UCL	0.0375	97.5% Chebyshev (MVUE) UCL	0.027
95% Modified-t UCL	0.0314	99% Chebyshev (MVUE) UCL	0.036
Gamma Distribution Test		Data Distribution	Maria - Maria - American de Carrello de Ca
	0.700		
k star (bias corrected) Theta Star	0.769 0.0209	Data do not follow a Discernable Distribution (0.05	···
nu star	27.67		
Approximate Chi Square Value (.05)	16.67	Nonparametric Statistics	
Approximate Cni Square Value (.05)  Adjusted Level of Significance	0.0357	95% CLT UCL	0.029
Adjusted Level of Significance Adjusted Chi Square Value	15.85	95% Jackknife UCL	0.029
Aujusted Cili Square Value	10.00	95% Standard Bootstrap UCL	0.030
Anderson-Darling Test Statistic	4.475	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.028

	i e e e e e e e e e e e e e e e e e e e		
Anderson Doding 50 Oritical Value	0.772	059/ Halla Postston LICI	0,242
Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic	0.772 0.5	95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	0.0308
Kolmogorov-Smirnov 7est Statistic  Kolmogorov-Smirnov 5% Critical Value	0.5	95% BCA Bootstrap UCL	0.0303
		95% BCA Bootstap GCL 95% Chebyshev(Mean, Sd) UCL	0.0403
Data not Gamma Distributed at 5% Significance Le	vei	97.5% Chebyshev(Mean, Sd) UCL	0.0514
Accoming Common Distribution		99% Chebyshev(Mean, Sd) UCL	0.0007
Assuming Gamma Distribution	0.0266		0.0906
95% Approximate Gamma UCL	<u> </u>		
95% Adjusted Gamma UCL	0.028		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0514
Result or 1/2 DL (cadmium)			
	General		
Number of Valid Samples	18	Number of Unique Samples	13
Raw Statistics		Log-transformed Statistics	
Minimum	0.003	Minimum of Log Data	-5.809
Maximum	0.8	Maximum of Log Data	-0.223
Mean	0.207	Mean of log Data	-3.089
Median	0.0135	SD of log Data	2.132
SD	0.252		etti lali bi mir ketti et të que (apatei equal
Coefficient of Variation	1.218		
Skewness	0.938		
	Relevant UC	DL Statistics	Parithe Westernete manuscrate
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.779	Shapiro Wilk Test Statistic	0.811
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.31	95% H-UCL	4.758
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.167
95% Adjusted-CLT UCL	0.319	97.5% Chebyshev (MVUE) UCL	1.534
95% Modified-t UCL	0.313	99% Chebyshev (MVUE) UCL	2.253
Gamma Distribution Test	1 0000	Data Distribution	-1
k star (bias corrected)	0.395	Data do not follow a Discernable Distribution (0.05	))
Theta Star	0.524		
nu star	14.22	Name and Old Va	(((K-1)-1)-1)-11-11-11-11-11-11-11-11-11-11-
Approximate Chi Square Value (.05)	6.721	Nonparametric Statistics	۸ ۸۸۲
Adjusted Level of Significance	0.0357		0.305 0.31
Adjusted Chi Square Value	6.231	95% Jackknife UCL	
A-1 D. P. T. (O. P.)	4 707	95% Standard Bootstrap UCL	0.3 0.33
Anderson-Darling Test Statistic	1.701	95% Bootstrap-t UCL	
Anderson-Darling 5% Critical Value	0.815	95% Hall's Bootstrap UCL	0.319
Kolmogorov-Smirnov Test Statistic	0.293	95% Percentile Bootstrap UCL	0.303
Kolmogorov-Smirnov 5% Critical Value	0.217	95% BCA Bootstrap UCL	0.312
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.466

0.578

97.5% Chehyshev(Mean, Sd) UCL

0.438   0.473   General St	99% Chebyshev(Mean, Sd) UCL  Use 99% Chebyshev (Mean, Sd) UCL  tatistics  Number of Unique Samples	0.799
0.473 General St	tatistics	
General St	tatistics	
	tatistics	
		10
		40
18	Number of Unique Samples	40
	The state of the s	16
	Log-transformed Statistics	
0.0048	Minimum of Log Data	-5.334
0.128	Maximum of Log Data	-2.056
		-4.778
	_	0.87
0.0289	35 5, 153 544	
1.885		
3.888		
elevant UCL		www.manninene
0.404	_	0.00
	·	0.69
0.897	·	0.88
	Assuming Lognormal Distribution	
0.0272	95% H-UCL	0.02
	95% Chebyshev (MVUE) UCL	0.02
0.0332	97.5% Chebyshev (MVUE) UCL	0.02
0.0282	99% Chebyshev (MVUE) UCL	0.03
	Data Distribution	
0.841	Data do not follow a Discernable Distribution (0.05)	
0.0182		
30.27		
18.71	Nonparametric Statistics	
0.0357	95% CLT UCL	0.02
17.84	95% Jackknife UCL	0.02
	95% Standard Bootstrap UCL	0.02
3.213	95% Bootstrap-t UCL	0.07
0.768	95% Hall's Bootstrap UCL	0.06
0.404	95% Percentile Bootstrap UCL	0.02
0.21	95% BCA Bootstrap UCL	0.03
el		0.04
		0.0
	99% Chebyshev(Mean, Sd) UCL	0.08
0.0248		
0.026		
	Use 95% Chahyehoy (Moon Sd) UCI	0.04
	1.885 3.888 elevant UCI  0.401 0.897  0.0272  0.0332 0.0282  0.0404 0.21 el	O.0055

ult or 1/2 DL (chromium)			
	General Sta	atistics	
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	no -to to make the the Glada ( to - p
Minimum	7.9	Minimum of Log Data	2.06
Maximum	128	Maximum of Log Data	4.85
Mean	20.26	Mean of log Data	2.68
Median	11.6	SD of log Data	0.6
SD	27.58		
Coefficient of Variation	1.361		
Skewness	3.912		
R	elevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.425	Shapiro Wilk Test Statistic	0.74
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level	C validation	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	31.56	95% H-UCL	25.79
95% UCLs (Adjusted for Skewness)	01.00	95% Chebyshev (MVUE) UCL	30.69
95% Adjusted-CLT UCL	37.35	97.5% Chebyshev (MVUE) UCL	36.2
95% Modified-t UCL	32.56	99% Chebyshev (MVUE) UCL	47.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.441	Data do not follow a Discernable Distribution (0.05)	
Theta Star	14.06	Data do not tollow a Discernable Distribution (0.05)	) 
nu star	51.88		
Approximate Chi Square Value (.05)	36.34	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	30.9
Adjusted Chi Square Value	35.09	95% Jackknife UCL	31.50
Adjusted offi oquate value		95% Standard Bootstrap UCL	30.82
Anderson-Darling Test Statistic	2.456	95% Bootstrap-t UCL	67.02
Anderson-Darling 5% Critical Value	0.755	95% Hall's Bootstrap UCL	67.3
Kolmogorov-Smirnov Test Statistic	0.331	95% Percentile Bootstrap UCL	32.3
Kolmogorov-Smirnov 5% Critical Value	0.207	95% BCA Bootstrap UCL	39.83
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	48.5
		97.5% Chebyshev(Mean, Sd) UCL	60.8
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	84.93
95% Approximate Gamma UCL	28.92		
95% Adjusted Gamma UCL	29.95		
		Use 95% Chebyshev (Mean, Sd) UCL	48.5
Potential UCL to Use	1		

General Statistics

	1,46%		
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	0.0045	Minimum of Log Data	-5.392
Maximum	1.3	Maximum of Log Data	0.26
Mean	0.102	Mean of log Data	-4.114
Median	0.0051	SD of log Data	1.68
SD	0.302		
Coefficient of Variation	2.951		
Skewness	4.085		
R	elevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	(*************************************
Shapiro Wilk Test Statistic	0.354	Shapiro Wilk Test Statistic	0.77
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Accuraing Normal Distribution		Associated agreement Distribution	
Assuming Normal Distribution	0.000	Assuming Lognormal Distribution	
95% Student's-t UCL	0.226	95% H-UCL	0.3
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.17
95% Adjusted-CLT UCL	0.293	97.5% Chebyshev (MVUE) UCL	0.2
95% Modified-t UCL	0.238	99% Chebyshev (MVUE) UCL	0.33
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.34	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.301		
nu star	12.25		····
Approximate Chi Square Value (.05)	5.394	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0357	95% CLT UCL	0.22
Adjusted Chi Square Value	4.962	95% Jackknife UCL	0.22
		95% Standard Bootstrap UCL	0.2
Anderson-Darling Test Statistic	2.54	95% Bootstrap-t UCL	0.79
Anderson-Darling 5% Critical Value	0.829	95% Hall's Bootstrap UCL	0.62
Kolmogorov-Smirnov Test Statistic	0.295	95% Percentile Bootstrap UCL	0.24
Kolmogorov-Smirnov 5% Critical Value	0.219	95% BCA Bootstrap UCL	0.32
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.4
		97.5% Chebyshev(Mean, Sd) UCL	0.54
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.8
95% Approximate Gamma UCL	0.233	3370 Offebyshev (wear, ou) COL	
95% Adjusted Gamma UCL	0.253		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.8
It or 1/2 DL (cobalt)			
	General Sta	tistics	
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	•
Minimum	2.81	Minimum of Log Data	1.03
IVICINITICALITY			

	i ujeci.		
Mean	5.789	Mean of log Data	1.718
Median	5.84	SD of log Data	0.299
SD	1.506		
Coefficient of Variation	0.26		
Skewness	-0.505		
	7-1	J. Chabladia	
Normal Distribution Test	Relevant UC	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.937	Shapiro Wilk Test Statistic	0.876
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	-	Assuming Lognormal Distribution	******************************
95% Student's-t UCL	6.406	95% H-UCL	6.668
	0.400	, , , , , , , , , , , , , , , , , , ,	
95% UCLs (Adjusted for Skewness)	6 000	95% Chebyshev (MVUE) UCL	7.623
95% Adjusted-CLT UCL 95% Modified-t UCL	6.328 6.399	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	8.407 9.946
95% Modified-t UCL	0.399	99% Cnebysnev (MVUE) UCL	9.94
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	11.08	Data appear Normal at 5% Significance Level	
Theta Star	0.522		
nu star	399		
Approximate Chi Square Value (.05)	353.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	6.37
Adjusted Chi Square Value	349.6	95% Jackknife UCL	6.40
		95% Standard Bootstrap UCL	6.35
Anderson-Darling Test Statistic	0.559	95% Bootstrap-t UCL	6.36
Anderson-Darling 5% Critical Value	0.739	95% Hall's Bootstrap UCL	6.31
Kolmogorov-Smirnov Test Statistic	0.143	95% Percentile Bootstrap UCL	6.35
Kolmogorov-Smirnov 5% Critical Value	0.203	95% BCA Bootstrap UCL	6.29
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	7.33
		97.5% Chebyshev(Mean, Sd) UCL	8.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	9.32
95% Approximate Gamma UCL	6.53		***************************************
95% Adjusted Gamma UCL	6.607		
Potential UCL to Use		Use 95% Student's-t UCL	6.40
esult or 1/2 DL (copper)	**************************************		ALIMITATION OF THE STREET, STR
	General S	tatictice	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics	***************************************	Log-transformed Statistics	
Minimum	5.9	Log-transformed Statistics  Minimum of Log Data	1.77
Maximum	200	Maximum of Log Data	5.29
Mean	24.13	Mean of log Data	2.62
Median	9.895	SD of log Data	0.86
SD	44.66	OD OI 10g Data	
Coefficient of Variation	1.851		
	ł		
Skewness	4.008		

	<u> </u>		
F	Relevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.401	Shapiro Wilk Test Statistic	0.79
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	42.44	95% H-UCL	33.52
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	38.28
95% Adjusted-CLT UCL	52.07	97.5% Chebyshev (MVUE) UCL	46.43
95% Modified-t UCL	44.1	99% Chebyshev (MVUE) UCL	62.4
Gamma Distribution Test		Data Distribution	**************************************
k star (bias corrected)	0.889	Data do not follow a Discernable Distribution (0.05	`
Theta Star	27.13	Data do not follow a Discernable Distribution (0.00	,
nu star	32.02		
Approximate Chi Square Value (.05)	20.09	Nonparametric Statistics	an de anche des an monte and and
Adjusted Level of Significance	0.0357	95% CLT UCL	41.4
Adjusted Chi Square Value	19.18	95% Jackknife UCL	42.4
/ tajaoto on oqualo valao		95% Standard Bootstrap UCL	41.1
Anderson-Darling Test Statistic	2.14	95% Bootstrap-t UCL	104.9
Anderson-Darling 5% Critical Value	0.766	95% Hall's Bootstrap UCL	104
Kolmogorov-Smirnov Test Statistic	0.271	95% Percentile Bootstrap UCL	44.2
Kolmogorov-Smirnov 5% Critical Value	0.209	95% BCA Bootstrap UCL	55.6
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	70.0
		97.5% Chebyshev(Mean, Sd) UCL	89.8
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	128.9
95% Approximate Gamma UCL	38.46		
95% Adjusted Gamma UCL	40.28		r : Half mytel - millet ter 1
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	70.0
sult or 1/2 DL (dibenz(a,h)anthracene)			
	General Stat	istics	
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	0.0034	Minimum of Log Data	-5.67
Maximum	0.404	Maximum of Log Data	-0.90
Mean	0.0471	Mean of log Data	-4.46
Median	0.0054	SD of log Data	1.4
SD	0.101		
Coefficient of Variation	2.145		
Skewness	3.017		
R	elevant UCL S	tatistics	
Normal Distribution Test	**************************************	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.501	Shapiro Wilk Test Statistic	0.7
	0.007		

Shapiro Wilk Critical Value

0.897

0.897

Shapiro Wilk Critical Value

Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	e general as as distanting the
Assuming Normal Distribution		Assuming Lognormal Distribution	and the state of t
95% Student's-t UCL	0.0885	95% H-UCL	0.12
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.08
95% Adjusted-CLT UCL	0.104	97.5% Chebyshev (MVUE) UCL	0.114
95% Modified-t UCL	0.0913	99% Chebyshev (MVUE) UCL	0.16
Solve Modalised 1 Soll	0.0010	30 % Chebyonov (MV 32) CS2	
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	0.419	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.112	andropolis indicates a paging and proprieting the section of the policy of the participation	
nu star j	15.07		
Approximate Chi Square Value (.05)	7.313	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.08
Adjusted Chi Square Value	6.798	95% Jackknife UCL	0.08
постания подавить под		95% Standard Bootstrap UCL	0.08
Anderson-Darling Test Statistic	3.091	95% Bootstrap-t UCL	0.14
Anderson-Darling 5% Critical Value	0.809	95% Hall's Bootstrap UCL	0.18
			0.18
Kolmogorov-Smirnov Test Statistic	0.429	95% Percentile Bootstrap UCL	
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.10
Data not Gamma Distributed at 5% Significance Lev	'el	95% Chebyshev(Mean, Sd) UCL	0.15
	17.00H160H161414-1114H1646464	97.5% Chebyshev(Mean, Sd) UCL	0.19
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.28
95% Approximate Gamma UCL	0.0971		
95% Adjusted Gamma UCL	0.104		×-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.28
		Good Good Group, Good (Madail, Gu), Good Good Good Good Good Good Good Goo	0.28
esult or 1/2 DL (dibenzofuran)			0.25
	General Stati	istics	
esult or 1/2 DL (dibenzofuran)  Number of Valid Samples	General Stati		16
		istics	
Number of Valid Samples		istics  Number of Unique Samples	
Number of Valid Samples Raw Statistics	18	istics  Number of Unique Samples  Log-transformed Statistics	16
Number of Valid Samples  Raw Statistics  Minimum	0.0030	Stics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	16 -5.799
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0030 0.0862 0.0129	istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.799 -2.451
Raw Statistics  Minimum  Maximum  Mean  Median	0.0030 0.0862 0.0129 0.0075	Stics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.799 -2.451 -4.835
Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0030 0.0862 0.0129 0.0075 0.0201	istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.799 -2.451 -4.835
Raw Statistics  Minimum  Maximum  Mean  Median	0.0030 0.0862 0.0129 0.0075	istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.799 -2.451 -4.835
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation	0.0030 0.0862 0.0129 0.0075 0.0201 1.556	istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.799 -2.451 -4.835
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0030 0.0862 0.0129 0.0075 0.0201 1.556	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.799 -2.451 -4.835
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0030 0.0862 0.0129 0.0075 0.0201 1.556 3.331	Istics    Log-transformed Statistics     Minimum of Log Data     Maximum of Log Data     Mean of log Data     SD of log Data     SD of log Data     Statistics     Lognormal Distribution Test	-5.799 -2.451 -4.835 0.83
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Ro  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0030 0.0862 0.0129 0.0075 0.0201 1.556 3.331 elevant UCL S	Istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.799 -2.451 -4.835 0.83
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Revenuess  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.0030 0.0862 0.0129 0.0075 0.0201 1.556 3.331	istics    Log-transformed Statistics     Minimum of Log Data     Maximum of Log Data     Mean of log Data     SD of log Data     Statistics     Lognormal Distribution Test     Shapiro Wilk Critical Value	-5.799 -2.451 -4.835 0.83
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Ro  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0030 0.0862 0.0129 0.0075 0.0201 1.556 3.331 elevant UCL S	Istics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.799 -2.451 -4.835 0.83
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Ro  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0030 0.0862 0.0129 0.0075 0.0201 1.556 3.331 elevant UCL S	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-5.799 -2.451 -4.835 0.83
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Revenuess  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.0030 0.0862 0.0129 0.0075 0.0201 1.556 3.331 elevant UCL S	istics    Log-transformed Statistics     Minimum of Log Data     Maximum of Log Data     Mean of log Data     SD of log Data     Statistics     Lognormal Distribution Test     Shapiro Wilk Critical Value	-5.799 -2.451 -4.835 0.83

	113.00		
95% Adjusted-CLT UCL	0.0247	97.5% Chebyshev (MVUE) UCL	0.025
95% Modified-t UCL	0.0218	99% Chebyshev (MVUE) UCL	0.034
			5
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.006	Data do not follow a Discernable Distribution (0.05	5) 
Theta Star	0.0129		
nu star	36.23		
Approximate Chi Square Value (.05)	23.45	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.02
Adjusted Chi Square Value	22.47	95% Jackknife UCL	0.02
		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	3.039	95% Bootstrap-t UCL	0.07
Anderson-Darling 5% Critical Value	0.763	95% Hall's Bootstrap UCL	0.08
Kolmogorov-Smirnov Test Statistic	0.443	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.209	95% BCA Bootstrap UCL	0.02
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.03
		97.5% Chebyshev(Mean, Sd) UCL	0.04
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.06
95% Approximate Gamma UCL	0.02		
95% Adjusted Gamma UCL	0.0209		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.03
ult or 1/2 DL (dieldrin)	General Sta	atistics	
ult or 1/2 DL (dieldrin)  Number of Valid Samples	General Sta	atistics  Number of Unique Samples	16
Number of Valid Samples	.yı	Number of Unique Samples	16
Number of Valid Samples  Raw Statistics	18	Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples  Raw Statistics  Minimum	8.2500E-5	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-9.403
Number of Valid Samples  Raw Statistics  Minimum  Maximum	8.2500E-5 0.0054	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-9.403 -5.212
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	8.2500E-5 0.0054 4.8661E-4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.403 -5.212 -8.757
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	8.2500E-5 0.0054 4.8661E-4 9.1250E-5	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-9.403 -5.212 -8.757
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	8.2500E-5 0.0054 4.8661E-4 9.1250E-5 0.0012	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.403 -5.212 -8.757
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	8.2500E-5 0.0054 4.8661E-4 9.1250E-5 0.0012 2.608	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-9.403 -5.212 -8.757
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	8.2500E-5 0.0054 4.8661E-4 9.1250E-5 0.0012 2.608 3.946	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-9.403 -5.212 -8.757 1.15
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	8.2500E-5 0.0054 4.8661E-4 9.1250E-5 0.0012 2.608	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics	-9.403 -5.212 -8.757
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	8.2500E-5   0.0054   4.8661E-4   9.1250E-5   0.0012   2.608   3.946   Relevant UCL	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-9.403 -5.212 -8.757 1.15
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	18	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-9.403 -5.212 -8.757 1.15
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	8.2500E-5   0.0054   4.8661E-4   9.1250E-5   0.0012   2.608   3.946   Relevant UCL	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-9.403 -5.212 -8.757 1.15
Raw Statistics  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	18	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-9.403 -5.212 -8.757 1.15
Raw Statistics  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	18	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-9.403 -5.212 -8.757
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	18	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-9.403 -5.212 -8.757 1.15 0.62 0.89
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	18	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-9.403 -5.212 -8.757 1.15 0.62 0.89
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  I  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	18	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.403 -5.212 -8.757 1.15 0.62 0.89
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	18	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.403 -5.212 -8.757 1.15 0.62 0.89
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	18	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL	-9.403 -5.212 -8.757 1.15 0.62 0.89 6.8487E 6.7672E 8.4448E
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  I  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	18	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.403 -5.212 -8.753 1.15 0.62 0.89 6.8487E 6.7672E 8.4448E 0.00

	7.12		
Theta Star	9.7586E-4		
nu star	17.95		
Approximate Chi Square Value (.05)	9.356	Nonparametric Statistics	, Marian de Mari
Adjusted Level of Significance	0.0357	95% CLT UCL	9.7856E-4
Adjusted Chi Square Value	8.764	95% Jackknife UCL	0.0010
		'	9.7408E-4
Anderson-Darling Test Statistic	3.815	95% Bootstrap-t UCL	0.0056
Anderson-Darling 5% Critical Value	0.795	95% Hall's Bootstrap UCL	0.0043
Kolmogorov-Smirnov Test Statistic	0.405	95% Percentile Bootstrap UCL	0.0010
Kolmogorov-Smirnov 5% Critical Value	0.214	95% BCA Bootstrap UCL	0.0013
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.001
		97.5% Chebyshev(Mean, Sd) UCL	0.0023
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0034
	9.3369E-4		
95% Adjusted Gamma UCL	9.9676E-4		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0034
esult or 1/2 DL (diethyl phthalate)			
	General S	statistics	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	0.0037	Minimum of Log Data	<i>-</i> 5.578
Maximum	0.0498	Maximum of Log Data	-3
Mean	0.0113	Mean of log Data	-4.651
Median	0.0093	SD of log Data	. 0.521
SD	0.0098		
Coefficient of Variation	0.874		
Skewness	3.836		
F	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.447	Shapiro Wilk Test Statistic	0.715
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	angaretti utani an an an an an an an an an
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0154	95% H-UCL	0.0142
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.016
95% Adjusted-CLT UCL	0.0174	97.5% Chebyshev (MVUE) UCL	0.019
95% Modified-t UCL	0.0157	99% Chebyshev (MVUE) UCL	0.024
		Data Distribution	
Gamma Distribution Test	an an		
Gamma Distribution Test k star (bias corrected)	2.625	Data do not follow a Discernable Distribution (0.0)	5)
	2.625 0.0043	Data do not follow a Discernable Distribution (0.09	5)
k star (bias corrected)		Data do not follow a Discernable Distribution (0.0	5)
k star (bias corrected) Theta Star	0.0043	Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics	5)
k star (bias corrected) Theta Star nu star	0.0043 94.5		0.015

		95% Standard Bootstrap UCL	0.0151
Anderson-Darling Test Statistic	2.778	95% Bootstrap-t UCL	0.025
Anderson-Darling 5% Critical Value	0.745	95% Hall's Bootstrap UCL	0.036
Kolmogorov-Smirnov Test Statistic	0.352	95% Percentile Bootstrap UCL	0.015
Kolmogorov-Smirnov 5% Critical Value	0.205	95% BCA Bootstrap UCL	0.018
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.021
		97.5% Chebyshev(Mean, Sd) UCL	0.0259
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.034
95% Approximate Gamma UCL	0.0146		
95% Adjusted Gamma UCL	0.015		
Color rejudica damina Col	0.010		trate (dr
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.021
Result or 1/2 DL (di-n-butyl phthalate)			
	General S		
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	**************************************
Minimum	0.0039	Minimum of Log Data	-5.525
Maximum	0.0835	Maximum of Log Data	-2.483
Mean	0.0179	Mean of log Data	-4.275
Median	0.0155	SD of log Data	0.702
SD	0.0173		
Coefficient of Variation	0.966		
Skewness	3.497		
The state of the s	Relevant UC	L Statistics	array or a man maddly the tendentic the
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.528	Shapiro Wilk Test Statistic	0.807
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.025	95% H-UCL	0.026
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.030
95% Adjusted-CLT UCL	0.0282	97.5% Chebyshev (MVUE) UCL	0.036
95% Modified-t UCL	0.0256	99% Chebyshev (MVUE) UCL	0.048
			**************************************
Gamma Distribution Test	1 60-	Data Distribution	-1
k star (bias corrected)	1.805	Data do not follow a Discernable Distribution (0.05	?) 
Theta Star	0.0099		
nu star	65 47.45	No. and a Obstance	
Approximate Chi Square Value (.05)	47.45	Nonparametric Statistics	0.004
Adjusted Chi Sauras Volus	0.0357	95% CLT UCL	0.024
Adjusted Chi Square Value	46.01	95% Jackknife UCL	0.025
	1 800	95% Standard Bootstrap UCL	0.024
Anderson-Darling Test Statistic	1.882	95% Bootstrap-t UCL	0.035
Anderson-Darling 5% Critical Value	0.752	95% Hall's Bootstrap UCL	0.057
Kolmogorov-Smirnov Test Statistic	0.305	95% Percentile Bootstrap UCL	0.025
Kolmogorov-Smirnov 5% Critical Value	0.206	95% BCA Bootstrap UCL	0.030

	ii kati		
Data not Gamma Distributed at 5% Significance Lev	vel .	95% Chebyshev(Mean, Sd) UCL	0.0357
		97.5% Chebyshev(Mean, Sd) UCL	0.0434
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.058
95% Approximate Gamma UCL	0.0246		
95% Adjusted Gamma UCL	0.0253		
Potential UCL to Use	-	Use 95% Chebyshev (Mean, Sd) UCL	0.035
sult or 1/2 DL (di-n-octyl phthalate)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	0.0042	Minimum of Log Data	-5.463
Maximum	0.123	Maximum of Log Data	-2.096
Mean	0.0144	Mean of log Data	-4.844
Median	0.0047	SD of log Data	0.879
SD	0.0276		
Coefficient of Variation	1.926		
Skewness	3.985		7 mar 14 mar
F	lelevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.391	Shapiro Wilk Test Statistic	0.708
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	amenta a constituto de la
95% Student's-t UCL	0.0257	95% H-UCL	0.019
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.022
95% Adjusted-CLT UCL	0.0316	97.5% Chebyshev (MVUE) UCL	0.027
95% Modified-t UCL	0.0267	99% Chebyshev (MVUE) UCL	0.036
Gamma Distribution Test		Data Distribution	i jaga sang ang manahan paggabban pagtabban pagtabban pagtabban paggabban pagtabban paggabban pa
k star (bias corrected)	0.842	Data do not follow a Discernable Distribution (0.05	
Theta Star	0.0171		
nu star	30.3		
Approximate Chi Square Value (.05)	18.73	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.025
Adjusted Chi Square Value	17.86	95% Jackknife UCL	0.025
		95% Standard Bootstrap UCL	0.025
Anderson-Darling Test Statistic	2.764	95% Bootstrap-t UCL	0.075
Anderson-Darling 5% Critical Value	0.768	95% Hall's Bootstrap UCL	0.065
Kolmogorov-Smirnov Test Statistic	0.319	95% Percentile Bootstrap UCL	0.027
Kolmogorov-Smirnov 5% Critical Value	0.21	95% BCA Bootstrap UCL	0.034
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.042
		97.5% Chebyshev(Mean, Sd) UCL	0.055
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.079
95% Approximate Gamma UCL	0.0232		
95% Adjusted Gamma UCL	0.0244		

Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.04
sult or 1/2 DL (endrin)			
	General Stat	tictics	
Number of Valid Samples	18	Number of Unique Samples	17
	L		
Raw Statistics		Log-transformed Statistics	
Minimum	1.0000E-4	Minimum of Log Data	-9.21
Maximum	0.0014	Maximum of Log Data	-6.509
Mean	3.0408E-4	Mean of log Data	-8.649
Median	1.1075E-4	SD of log Data	0.90
SD	4.4300E-4		
Coefficient of Variation	1.457		
Skewness	2.426		
	Relevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.511	Shapiro Wilk Test Statistic	0.64
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	4.8573E-4	95% H-UCL	
95% UCLs (Adjusted for Skewness)		, , , , , , , , , , , , , , , , , , , ,	5.1891E
·	5.3964E-4		6.3236E
95% Modified-t UCL	4.9568E-4	99% Chebyshev (MVUE) UCL	8.5520E
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.906	Data do not follow a Discernable Distribution (0.05	5)
Theta Star			
nu star	32.63		***************************************
Approximate Chi Square Value (.05)	20.57	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	4.7583E
Adjusted Chi Square Value	19.65	95% Jackknife UCL	
		95% Standard Bootstrap UCL	4.7115E
Anderson-Darling Test Statistic	3.335		9.7138E
Anderson-Darling 5% Critical Value	0.766	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.413		4.9036E
Kolmogorov-Smirnov 5% Critical Value	0.209	·	5.6164E
Data not Gamma Distributed at 5% Significance Le	İ	95% Chebyshev(Mean, Sd) UCL	7.5922E
		, , , , , , , , , , , , , , , , , , , ,	9.5616E
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
_	4.8233E-4		
	5.0484E-4		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	7.5922E

Result or 1/2 DL (endrin aldehyde)

	15.00		
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
and the same and the features are considered from the same and the same and the same for the same and the sam	1.9750E-4	Minimum of Log Data	-8.53
Maximum	0.0016	Maximum of Log Data	-6.413
	3.3575E-4	Mean of log Data	-8.206
	2.1825E-4	SD of log Data	0.538
	3.4111E-4		······································
Coefficient of Variation	1.016		<b></b>
Skewness	3.689		
F	Relevant UC	L Statistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.442	Shapiro Wilk Test Statistic	0.628
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
_	4.7561E-4	95% H-UCL	4 1301F-
95% UCLs (Adjusted for Skewness)	4.730 IL-4		4.9211E-
	5.4269E-4		5.6981E-
	4.8726E-4		7.2243E-
			The second secon
Gamma Distribution Test	-	Data Distribution	
k star (bias corrected)	2.175	Data do not follow a Discernable Distribution (0.05	5)
Theta Star			
nu star	78.31		C.L.,C.O.O.
Approximate Chi Square Value (.05)	58.93	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	
Adjusted Chi Square Value	57.31		4.7561E-
			4.6765E-
Anderson-Darling Test Statistic	3.127	-	9.5486E-
Anderson-Darling 5% Critical Value	0.749	•	9.2712E-
Kolmogorov-Smirnov Test Statistic	0.361	• 4	4.8614E-
Kolmogorov-Smirnov 5% Critical Value	0.206	•	5.9244E-
Data not Gamma Distributed at 5% Significance Le	vel		6.8620E-
			8.3784E-
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
	4.4622E-4 4.5878E-4		
	La participa de la constanta d		40- 1-410
		Use 95% Chebyshev (Mean, Sd) UCL	6.8620E-
Potential UCL to Use			
Potential UCL to Use esult or 1/2 DL (endrin ketone)			
	General S	Statistics	

Log-transformed Statistics

Raw Statistics

	2. 2.		
Minimum	2.4750E-4	Minimum of Log Data	-8.304
Maximum	0.0096	Maximum of Log Data	-4.64
Меап	8.7406E-4	Mean of log Data	-7.889
Median	2.7375E-4	SD of log Data	0.918
SD	0.0022		
Coefficient of Variation	2.531		1.0.101111111111111111111111111111111
Skewness	4.128		
F	Relevant UCI	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	or received as received by an ex-
Shapiro Wilk Test Statistic	0.312	Shapiro Wilk Test Statistic	0.485
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0017	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)	0.0017	95% Chebyshev (MVUE) UCL	0.001
95% Adjusted to Skewness)  95% Adjusted-CLT UCL	0.0022	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0022	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.631	Data do not follow a Discernable Distribution (0.05	`
Theta Star	0.0013	Data do not follow a Discernable Distribution (0.00	<i></i>
			est (royalistadisadisadisses
nu star	22.7	Name and a state of the state of	H-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Approximate Chi Square Value (.05)	12.87	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.001
Adjusted Chi Square Value	12.16	95% Jackknife UCL	0.001
	4.070	95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	4.879	95% Bootstrap-t UCL	0.020
Anderson-Darling 5% Critical Value	0.781	95% Hall's Bootstrap UCL	0.019
Kolmogorov-Smirnov Test Statistic	0.476	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.212	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.003
		97.5% Chebyshev(Mean, Sd) UCL	0.004
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.006
95% Approximate Gamma UCL	0.0015		
95% Adjusted Gamma UCL	0.0016		
Potential UCL to Use	disconsisting to the second	Use 95% Chebyshev (Mean, Sd) UCL	0.003
			*
Result or 1/2 DL (fluoranthene)			
Number of Valid Samples	General S	tatistics  Number of Unique Samples	16
Hambel of Valid Saffples		Hambel of Offique Samples	
Raw Statistics		Log-transformed Statistics	
Minimum	0.0033	Minimum of Log Data	-5.69
Maximum	2.19	Maximum of Log Data	0.784
Mean	0.159	Mean of log Data	-3.978
Median	0.0064	SD of log Data	1.767
SD	0.511		

Coefficient of Variation	3.208		
Skewness	4.123		
***************************************			
R	elevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	annana, a erek erine
Shapiro Wilk Test Statistic	0.334	Shapiro Wilk Test Statistic	0.77
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	raphronius que que este identica en coda este
95% Student's-t UCL	0.369	95% H-UCL	0.48
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.23
95% Adjusted-CLT UCL	0.483	97.5% Chebyshev (MVUE) UCL	0.30
95% Modified-t UCL	0.389	99% Chebyshev (MVUE) UCL	0.44
Gamma Distribution Test		Data Distribution	and an analysis of Padding Lands and San
k star (bias corrected)	0.303	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.526		
nu star	10.9		V-b
Approximate Chi Square Value (.05)	4.51	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.3
Adjusted Chi Square Value	4.122	95% Jackknife UCL	0.36
		95% Standard Bootstrap UCL	0.35
Anderson-Darling Test Statistic	2.855	95% Bootstrap-t UCL	1.74
Anderson-Darling 5% Critical Value	0.838	95% Hall's Bootstrap UCL	1.44
Kolmogorov-Smirnov Test Statistic	0.332	95% Percentile Bootstrap UCL	0.39
Kolmogorov-Smirnov 5% Critical Value	0.22	95% BCA Bootstrap UCL	0.53
Data not Gamma Distributed at 5% Significance Lev	1	95% Chebyshev(Mean, Sd) UCL	0.68
		97.5% Chebyshev(Mean, Sd) UCL	0.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.3
95% Approximate Gamma UCL	0.385		
95% Adjusted Gamma UCL	0.421		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.3
ult or 1/2 DL (fluorene)			
	and the first state of the stat		
Number of Valid Samples	General S	Statistics  Number of Unique Samples	16
			************************
Raw Statistics		Log-transformed Statistics	· · · · · · · · · · · · · · · · · · ·
Minimum	0.0034	Minimum of Log Data	-5.67
Maximum	0.141	Maximum of Log Data	-1.95
Mean	0.0163	Mean of log Data	-4.83
Median	0.0054	SD of log Data	0.9
SD	0.0324		
Coefficient of Variation	1.986		
Skewness	3.744		
R	elevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	

Shapiro Wilk Test Statistic	0,419	Shapiro Wilk Test Statistic	0.679
,		Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.897
Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.897	Data not Lognormal at 5% Significance Level	0.69
Assuming Normal Distribution	The second second	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0296	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)	5	95% Chebyshev (MVUE) UCL	0.02
95% Adjusted-CLT UCL	0.0361	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.0307	99% Chebyshev (MVUE) UCL	0.04
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.722	Data do not follow a Discernable Distribution (0.05)	}
Theta Star	0.0226	had a second sec	
nu star	25.98		
Approximate Chi Square Value (.05)	15.36	Nonparametric Statistics	······································
Adjusted Level of Significance	0.0357	95% CLT UCL	0.02
Adjusted Chi Square Value	14.58	95% Jackknife UCL	0.02
Adjusted Offi Square Value	14.30	95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	2 200	95% Bootstrap-t UCL	0.02
	3.308	-	0.07
Anderson-Darling 5% Critical Value	0.775	95% Hall's Bootstrap UCL	
Kolmogorov-Smirnov Test Statistic	0.441	95% Percentile Bootstrap UCL	0.03
Kolmogorov-Smirnov 5% Critical Value	0.211	95% BCA Bootstrap UCL	0.03
Data not Gamma Distributed at 5% Significance Le	/el	95% Chebyshev(Mean, Sd) UCL	0.04
		97.5% Chebyshev(Mean, Sd) UCL	0.06
Assuming Gamma Distribution	v, aspessore	99% Chebyshev(Mean, Sd) UCL	0.09
95% Approximate Gamma UCL	0.0276		
95% Adjusted Gamma UCL	0.0291		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.04
esult or 1/2 DL (indeno(1,2,3-cd)pyrene)	1177-45-107-9 \$10.107-9 \$20.107-9 \$10		
	General S	tatistics	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics	***************************************	Log-transformed Statistics	
Minimum	0.0082	Minimum of Log Data	-4.798
Maximum	1.51	Maximum of Log Data	0.41
Mean	0.151	Mean of log Data	-3.227
Median	0.0338	SD of log Data	1.61
SD	0.349		
Coefficient of Variation  Skewness	2.305 3.88		
	0.00		
R Normal Distribution Test	elevant UCI	_ Statistics  Lognormal Distribution Test	
	0.400		Λ 0.4
Shapiro Wilk Test Statistic	0.433	Shapiro Wilk Test Statistic	0.84
Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.897	Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	0.89
	7		
Assuming Normal Distribution		Assuming Lognormal Distribution	

95% Student's-t UCL	0.294	95% H-UCL	0.60
95% UCLs (Adjusted for Skewness)	0.294	95% Chebyshev (MVUE) UCL	0.37
95% Adjusted CLT UCL	0.367	97.5% Chebyshev (MVUE) UCL	0.37
95% Adjusted-CE1 OCL 95% Modified-t UCL	0.307	99% Chebyshev (MVUE) UCL	0.40
93 % Widdined-t OCL	0.307	33 % Chebyshev (MIVOE) OCE	0.03
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.435	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.347		or control to the first own of the control to the c
nu star	15.68		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Approximate Chi Square Value (.05)	7.735	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.28
Adjusted Chi Square Value	7.204	95% Jackknife UCL	0.29
		95% Standard Bootstrap UCL	0.28
Anderson-Darling Test Statistic	1.422	95% Bootstrap-t UCL	0.71
Anderson-Darling 5% Critical Value	0.805	95% Hall's Bootstrap UCL	0.75
Kolmogorov-Smirnov Test Statistic	0.238	95% Percentile Bootstrap UCL	0.31
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.40
Data not Gamma Distributed at 5% Significance Le	l	95% Chebyshev(Mean, Sd) UCL	0.50
		97.5% Chebyshev(Mean, Sd) UCL	0.66
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.96
95% Approximate Gamma UCL	0.306		egetgedysdriveles entriklikesdrive
95% Adjusted Gamma UCL	0.329		
Potential UCL to Use		11 000/ Ob-back (Manage Od) 1101	0.01
		Use 99% Chebyshev (Mean, Sd) UCL	0.96
	General Sta		0.96
	General Sta		18
t or 1/2 DL (iron)  Number of Valid Samples		ntistics  Number of Unique Samples	
t or 1/2 DL (iron)  Number of Valid Samples  Raw Statistics	18	Number of Unique Samples  Log-transformed Statistics	18
Number of Valid Samples  Raw Statistics  Minimum	18 8450	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	18
t or 1/2 DL (iron)  Number of Valid Samples  Raw Statistics  Minimum  Maximum	8450 102000	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	9.0 <sup>2</sup>
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	8450 102000 19477	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	9.04 11.55 9.68
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	8450 102000 19477 14700	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	9.04 11.55 9.68
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	8450 102000 19477 14700 21073	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	9.0- 11.5- 9.6
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation	18 8450 102000 19477 14700 21073 1.082	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	9.0- 11.5- 9.6
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	8450 102000 19477 14700 21073	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	9.0 <sup>2</sup> 11.5 <sup>2</sup> 9.6 <sup>8</sup>
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	18 8450 102000 19477 14700 21073 1.082	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	9.04 11.55 9.68
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	8450 102000 19477 14700 21073 1.082 3.929	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	9.04 11.55 9.65 0.56
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Finance of the statistic of t	18 8450 102000 19477 14700 21073 1.082 3.929 Relevant UCL \$0.446	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	9.04 11.55 9.65 0.56
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	8450 102000 19477 14700 21073 1.082 3.929	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	9.0-4 11.55 9.68 0.56
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Finance of Variation  Skewness  Finance of Variation  Skewness  Finance of Variation  Skewness  Finance of Variation  Skewness	18 8450 102000 19477 14700 21073 1.082 3.929 Relevant UCL \$0.446	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	9.0-4 11.55 9.68 0.56
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	18 8450 102000 19477 14700 21073 1.082 3.929 Relevant UCL \$0.446	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	9.0 <sup>2</sup> 11.5 <sup>2</sup> 9.6 <sup>5</sup> 0.5 <sup>6</sup>
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	8450 102000 19477 14700 21073 1.082 3.929 Relevant UCL \$	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	9.0 <sup>2</sup> 11.5 <sup>3</sup> 9.6 <sup>5</sup> 0.5 <sup>6</sup> 0.78
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Finance Level  Assuming Normal Distribution  95% Student's-t UCL	18 8450 102000 19477 14700 21073 1.082 3.929 Relevant UCL \$0.446	Atistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	9.04 11.53 9.65 0.56 0.78 0.89
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	8450 102000 19477 14700 21073 1.082 3.929 Relevant UCL \$	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	9.0 <sup>2</sup> 11.5 <sup>3</sup> 9.6 <sup>5</sup> 0.5 <sup>6</sup> 0.78

The state of the s	de communication de la com		le romania de la compania de la comp
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.024	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	<u> </u>	Data do not lonow a Discontable Distribution (cook	
nu star	72.87		n
Approximate Chi Square Value (.05)	54.22	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	27646
Adjusted Chi Square Value	52.67	95% Jackknife UCL	28117
		95% Standard Bootstrap UCL	27363
Anderson-Darling Test Statistic	1.88	95% Bootstrap-t UCL	50030
Anderson-Darling 5% Critical Value	0.75	95% Hall's Bootstrap UCL	59925
Kolmogorov-Smirnov Test Statistic	0.266	95% Percentile Bootstrap UCL	29158
Kolmogorov-Smirnov 5% Critical Value	0.206	95% BCA Bootstrap UCL	34109
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	41127
3	1	97.5% Chebyshev(Mean, Sd) UCL	50495
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	68897
95% Approximate Gamma UCL	26179		
95% Adjusted Gamma UCL	26946		
oo / / Aquisica dariiina coc	20040		*******************************
Potential UCL to Use	<u> </u>	Use 95% Chebyshev (Mean, Sd) UCL	41127
	SP4***		
Result or 1/2 DL (lead)			
	General Sta	atistics	
Number of Valid Samples	18	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	Segren effected to the constitution of the
Minimum	8.22	Minimum of Log Data	2.107
Maximum	471	Maximum of Log Data	6.15
Mean	57.7	Mean of log Data	3.18
Median	17.1	SD of log Data	1.16
SD	111.1		
Coefficient of Variation	1.926		
Skewness	3.403		
F	Relevant UCL	Statistics	Millioper Christian (1975)
Normal Distribution Test		Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.491	Shapiro Wilk Test Statistic	0.82
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	103.3	95% H-UCL	107
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	105.1
95% Adjusted-CLT UCL	123.2	97.5% Chebyshev (MVUE) UCL	131.2
95% Modified-t UCL	106.8	99% Chebyshev (MVUE) UCL	182.5
		Data Distribution	
Gamma Distribution Test	1		
	0.615	Data do not follow a Discernable Distribution (0.05	5)
k star (bias corrected)	0.615	Data do not follow a Discernable Distribution (0.05	5)
	93.85 22.13	Data do not follow a Discernable Distribution (0.05	5)

Adjusted Level of Significance	0.0357	95% CLT UCL	100.8
Adjusted Chi Square Value	11.74	95% Jackknife UCL	103.3
	<u> </u>	95% Standard Bootstrap UCL	99.39
Anderson-Darling Test Statistic	2.108	95% Bootstrap-t UCL	197
Anderson-Darling 5% Critical Value	0.783	95% Hall's Bootstrap UCL	232.9
Kolmogorov-Smirnov Test Statistic	0.352	95% Percentile Bootstrap UCL	105.7
Kolmogorov-Smirnov 5% Critical Value	0.212	95% BCA Bootstrap UCL	130.8
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	171.9
	Y	97.5% Chebyshev(Mean, Sd) UCL	221.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	318.3
95% Approximate Gamma UCL	102.7		energen er en en en en en en en en en en en en en
95% Adjusted Gamma UCL	108.7		
Potential UCL to Use	J	Use 99% Chebyshev (Mean, Sd) UCL	318.3
Result or 1/2 DL (lithium)			
	General	Statistics	ar na ann ann an gaige Míl an 14 an ann an an gaige a
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	
Minimum	2.59	Minimum of Log Data	0.952
Maximum	26.6	Maximum of Log Data	3.281
Mean		Mean of log Data	2.729
Median	16.15	SD of log Data	0.49
SD	5.136		***************************************
Coefficient of Variation	0.31		.,
Skewness	-0.697		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.93	Shapiro Wilk Test Statistic	0.671
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	orthographes Mercents printeriories	Assuming Lognormal Distribution	
Assuming Normal Distribution 95% Student's-t UCL	18.68	Assuming Lognormal Distribution 95% H-UCL	21.97
95% UCLs (Adjusted for Skewness)	10.08	95% R-UCL 95% Chebyshev (MVUE) UCL	26.08
95% OCLS (Adjusted for Skewness)  95% Adjusted-CLT UCL	18.35	97.5% Chebyshev (MVUE) UCL	29.95
95% Modified-t UCL	18.35	97.3% Chebyshev (MVUE) UCL	37.54
90% Mounteu-LOCL	10.04	33 % Oliepysiles (INIVOE) UCL	37.34
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.486	Data appear Normal at 5% Significance Level	, prost, -10 (c) projector (c) 1000 co (4000 c) c)
Theta Star	3.021		
nu star	197.5		
Approximate Chi Square Value (.05)	166	Nonparametric Statistics	10 =0
Adjusted Level of Significance	0.0357		18.56
Adjusted Chi Square Value	163.2	95% Jackknife UCL	18.68
	1.55	95% Standard Bootstrap UCL	18.51
Anderson-Darling Test Statistic	1.234	95% Bootstrap-t UCL	18.55
Anderson-Darling 5% Critical Value	0.742	95% Hall's Bootstrap UCL	18.52

10 Jan 1982 1980 1982 1982 1982 1			
Kolmogorov-Smirnov Test Statistic	0.223	95% Percentile Bootstrap UCL	18.41
Kolmogorov-Smirnov 5% Critical Value	0.204	95% BCA Bootstrap UCL	18.37
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	21.85
		97.5% Chebyshev(Mean, Sd) UCL	24.13
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	28.62
95% Approximate Gamma UCL	19.72		
95% Adjusted Gamma UCL	20.05		
Potential UCL to Use		Use 95% Student's-t UCL	18.68
esult or 1/2 DL (manganese)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	
Minimum	82.3	Minimum of Log Data	4.4
Maximum	1210	Maximum of Log Data	7.09
Mean	369.5	Mean of log Data	5.7
Median	296	SD of log Data	0.5
SD	247.7		
Coefficient of Variation	0.67		was between Harrison
Skewness	2.484		
	Relevant UC	L Statistics	**************************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.741	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	471	95% H-UCL	493.3
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	588.4
95% Adjusted-CLT UCL	502	97.5% Chebyshev (MVUE) UCL	684.4
95% Modified-t UCL	476.7	99% Chebyshev (MVUE) UCL	872.9
Gamma Distribution Test		Data Distribution	elber i francischer i e. i direkteren
k star (bias corrected)	2.813	Data appear Gamma Distributed at 5% Significance I	_evel
Theta Star	131.3		
nu star	101.3		###   T.
Approximate Chi Square Value (.05)	79.05	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0357	95% CLT UCL	465.5
Adjusted Chi Square Value	77.16	95% Jackknife UCL	471
		95% Standard Bootstrap UCL	461.6
Anderson-Darling Test Statistic	0.663	95% Bootstrap-t UCL	536.8
Anderson-Darling 5% Critical Value	0.745	95% Hall's Bootstrap UCL	887
Kolmogorov-Smirnov Test Statistic	0.172	95% Percentile Bootstrap UCL	465.4
Kolmogorov-Smirnov 5% Critical Value	0.205	95% BCA Bootstrap UCL	499.5
Data appear Gamma Distributed at 5% Significance I	_evel	. 95% Chebyshev(Mean, Sd) UCL	623.9
		97.5% Chebyshev(Mean, Sd) UCL	734
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	950.3

	V=0.0		
95% Approximate Gamma UCL	473.3		
95% Adjusted Gamma UCL	484.9		Photocological Strategical Section 2015
Potential UCL to Use		Use 95% Approximate Gamma UCL	473.3
Result or 1/2 DL (mercury)			
	General S	Patieties	
Number of Valid Samples	18	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	and the second second
Minimum-	0.0011	Minimum of Log Data	-6.768
Maximum	0.064	Maximum of Log Data	-2.749
Mean	0.0126	Mean of log Data	-5.156
Median	0.0074		1.364
SD	0.0163		
Coefficient of Variation	1.295		CALLES THE PROPERTY OF THE PARTY
Skewness	2.2		
F	Relevant UC	CL Statistics	hadin 1943 dan 164 km km pilak tan 1871 dan
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.724	Shapiro Wilk Test Statistic	0.876
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	Nic tarii i Ni di Ni di Africa di Constituto de Constituto	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0193	95% H-UCL	0.0425
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0351
95% Adjusted-CLT UCL	0.0211	97.5% Chebyshev (MVUE) UCL	0.0445
95% Modified-t UCL	0.0196	99% Chebyshev (MVUE) UCL	0.063
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.673	Data Follow Appr. Gamma Distribution at 5% Significance	e Level
Theta Star	0.0187		
nu star	24.24		
Approximate Chi Square Value (.05)	14.04	Nonparametric Statistics	and a color conj. prij e a t a color prijeme prijeme prijeme prijeme prijeme prijeme prijeme prijeme prijeme p
Adjusted Level of Significance	0.0357	95% CLT UCL	0.0189
Adjusted Chi Square Value	13.29	95% Jackknife UCL	0.0193
		95% Standard Bootstrap UCL	0.0187
Anderson-Darling Test Statistic	0.775	95% Bootstrap-t UCL	0.0246
Anderson-Darling 5% Critical Value	0.777	95% Hall's Bootstrap UCL	0.0464
Kolmogorov-Smirnov Test Statistic	0.234	95% Percentile Bootstrap UCL	0.0192
Kolmogorov-Smirnov 5% Critical Value	0.211	95% BCA Bootstrap UCL	0.0209
Data follow Appr. Gamma Distribution at 5% Significanc	e Level	95% Chebyshev(Mean, Sd) UCL	0.0294
		97.5% Chebyshev(Mean, Sd) UCL	0.0366
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0509
95% Approximate Gamma UCL	0.0218		
		The state of the s	
95% Adjusted Gamma UCL	0.023		MINERAL CONTRACTOR OF THE PERSON OF THE PERS

sult or 1/2 DL (molybdenum)			
	General S	tatistics	
Number of Valid Samples	18	Number of Unique Samples	15
Raw Statistics	on the special state of the sp	Log-transformed Statistics	
Minimum	0.037	Minimum of Log Data	-3.297
Maximum	10.7	Maximum of Log Data	2.37
Mean	0.949	Mean of log Data	-1.744
Median	0.11	SD of log Data	1.69
SD	2.5		A
Coefficient of Variation	2.636		***************************************
Skewness	3.897		
· R	elevant UCL	_ Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.406	Shapiro Wilk Test Statistic	0.85
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	4011
95% Student's-t UCL	1.974	95% H-UCL	3.54
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.93
95% Adjusted-CLT UCL	2.496	97.5% Chebyshev (MVUE) UCL	2.49
95% Modified-t UCL	2.064	99% Chebyshev (MVUE) UCL	3.60
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.363	Data do not follow a Discernable Distribution (0.05)	<b>)</b>
Theta Star	2.616	Data do not follow a Discernable Distribution (0.00)	/
nu star	13.05		A.N
Approximate Chi Square Value (.05)	5.929	Nonparametric Statistics	g.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Adjusted Level of Significance	0.0357	95% CLT UCL	1.91
Adjusted Chi Square Value	5.473	95% Jackknife UCL	1.97
/ tojustou om oquato ratio		95% Standard Bootstrap UCL	1.90
Anderson-Darling Test Statistic	1.907	95% Bootstrap-t UCL	5.87
Anderson-Darling 5% Critical Value	0.823	95% Hall's Bootstrap UCL	5.18
Kolmogorov-Smirnov Test Statistic	0.276	95% Percentile Bootstrap UCL	2.07
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	2.80
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	3.51
		97.5% Chebyshev(Mean, Sd) UCL	4.62
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	6.81
95% Approximate Gamma UCL	2.088		n w \u00e4m
95% Adjusted Gamma UCL	2.262		
Potential UCL to Use	Ì	Use 99% Chebyshev (Mean, Sd) UCL	6.81
sult or 1/2 DL (nickel)			, 41 × 51 × 10 × 10 × 10 × 10 × 10 × 10 × 1
	General St	atistics	***************************************
Number of Valid Samples	18	Number of Unique Samples	17

Raw Statistics		Log-transformed Statistics	
Minimum	i 11.7	Minimum of Log Data	2.46
Maximum	51.7	Maximum of Log Data	3.945
Mean	17.04	Mean of log Data	2.762
Median	14.6	SD of log Data	0.343
SD	9.054	3D OI TOY DATA	0.545
Coefficient of Variation	0.531		
Skewness	3.644		
	Relevant LIC	DL Statistics	V
Normal Distribution Test	velevant OC	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.519	Shapiro Wilk Test Statistic	0.727
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level	0.037	Data not Lognormal at 5% Significance Level	0.037
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	20.76	95% H-UCL	19.67
95% UCLs (Adjusted for Skewness)	·	95% Chebyshev (MVUE) UCL	22.75
95% Adjusted-CLT UCL	22.51	97.5% Chebyshev (MVUE) UCL	25.35
95% Modified-t UCL	21.06	99% Chebyshev (MVUE) UCL	30.46
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.852	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	2.912		
nu star	210.7		
Approximate Chi Square Value (.05)	178.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	20.55
Adjusted Chi Square Value	175.2	95% Jackknife UCL	20.76
		95% Standard Bootstrap UCL	20.4
Anderson-Darling Test Statistic	1.832	95% Bootstrap-t UCL	27.42
Anderson-Darling 5% Critical Value	0.741	95% Hall's Bootstrap UCL	33.85
Kolmogorov-Smirnov Test Statistic	0.262	95% Percentile Bootstrap UCL	20.86
Kolmogorov-Smirnov 5% Critical Value	0.204	95% BCA Bootstrap UCL	23.26
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	26.35
		97.5% Chebyshev(Mean, Sd) UCL	30.37
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	38.28
95% Approximate Gamma UCL	20.16		
95% Adjusted Gamma UCL	20.49		
Potential UCL to Use		Use 95% Student's-t UCL	20.76
1 OCHRICI COL IO OSE		or 95% Modified-t UCL	21.06
	nancan gunaran an  or 30% Mounteurt OOL	21.00	
esult or 1/2 DL (phenanthrene)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	16
Day Clatistics		Log transfermed Chilitics	
Raw Statistics	0.000	Log-transformed Statistics	E 014
Minimum	0.0036		-5.614
Maximum	1.34	Maximum of Log Data	0.293

			3032.3
Mear		Mean of log Data	-3.947
Median	<u>L </u>	SD of log Data	1.591
SC			National Control of the control of t
Coefficient of Variation			
Skewness	3.979		
	Relevant UCL		
Normal Distribution Test	**************************************	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	<u> </u>	Shapiro Wilk Test Statistic	0.807
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	one and the second
Assuming Normal Distribution		Assuming Lognormal Distribution	40.00 to 40.00 to 40.00 to 60.00 to 60
95% Student's-t UCL	0.238	95% H-UCL	0.276
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.175
95% Adjusted-CLT UCL	0.305	97.5% Chebyshev (MVUE) UCL	0.225
95% Modified-t UCL	0.249	99% Chebyshev (MVUE) UCL	0.324
Gamma Distribution Test		Data Distribution	The state of the s
k star (bias corrected)	0.356	Data do not follow a Discernable Distribution (0.05	)
Theta Star			
nu stai	r 12.81		
Approximate Chi Square Value (.05)	5.764	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.23
Adjusted Chi Square Value	5.316	95% Jackknife UCL	0.238
		95% Standard Bootstrap UCL	0.23
Anderson-Darling Test Statistic	2.6	95% Bootstrap-t UCL	0.85
Anderson-Darling 5% Critical Value	0.825	95% Hall's Bootstrap UCL	0.793
Kolmogorov-Smirnov Test Statistic	0.318	95% Percentile Bootstrap UCL	0.249
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	0.34
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.43
		97.5% Chebyshev(Mean, Sd) UCL	0.57
Assuming Gamma Distribution	1	99% Chebyshev(Mean, Sd) UCL	0.84
95% Approximate Gamma UCL	0.243		
95% Adjusted Gamma UCL	0.263		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.845
Result or 1/2 DL (pyrene)	, gar menser e sant, are en en en en en en en en en en en en en		***************************************
	General St	atictics	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics	1	Log-transformed Statistics	***************************************
Haw Statistics Minimum	0.0061	Log-transformed Statistics  Minimum of Log Data	-5.099
Maximum		Maximum of Log Data	0.626
Mean		Mean of log Data	-3.778
Median		SD of log Data	1.68
SD		SD OI ING Data	1.00
Coefficient of Variation	2.972		**************************************
Skewness			

F	Relevant UCL S	Statistics	urum novert - rece
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.357	Shapiro Wilk Test Statistic	0.79
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.89
Data not Normal at 5% Significance Level	-	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.325	95% H-UCL	0.43
95% UCLs (Adjusted for Skewness)	0.020	95% Chebyshev (MVUE) UCL	0.2
95% Adjusted-CLT UCL	0.421	97.5% Chebyshev (MVUE) UCL	0.3
95% Modified-t UCL	0.342	99% Chebyshev (MVUE) UCL	0.4
35/8 Woulleu-LOCE	0.542	33 / CiteDystlev (MIVOL) CCL	V. <del>+</del>
Gamma Distribution Test		Data Distribution	n magai ngay nga ng magaiga gal dal
k star (bias corrected)	0.337	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.435		manan-n-m-19-a
nu star	12.14		
Approximate Chi Square Value (.05)	5.319	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0357	95% CLT UCL	0.3
Adjusted Chi Square Value	4.891	95% Jackknife UCL	0.3
		95% Standard Bootstrap UCL	0.3
Anderson-Darling Test Statistic	2.472	95% Bootstrap-t UCL	1.1
Anderson-Darling 5% Critical Value	0.829	95% Hall's Bootstrap UCL	0.9
Kolmogorov-Smirnov Test Statistic	0.28	95% Percentile Bootstrap UCL	0.3
Kolmogorov-Smirnov 5% Critical Value	0.219	95% BCA Bootstrap UCL	0.4
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.5
		97.5% Chebyshev(Mean, Sd) UCL	0.7
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.1
95% Approximate Gamma UCL	0.335		
95% Adjusted Gamma UCL	0.364		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.1
esult or 1/2 DL (silver)			
	General Stat	istics	· · · · · · · · · · · · · · · · · · ·
Number of Valid Samples	18	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	0.0135	Minimum of Log Data	-4.30
Maximum	0.41	Maximum of Log Data	-0.89
Mean	0.0543	Mean of log Data	-3.38
Median	0.03	SD of log Data	0.7
SD	0.0909		
Coefficient of Variation	1.676		
Skewness	3.94		
	elevant UCL S	Statictics	
Normal Distribution Test	SIGNAIN OOL S	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.398	Shapiro Wilk Test Statistic	0.7
		'	
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.

Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0915	95% H-UCL	0.072
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.084
95% Adjusted-CLT UCL	0.111	97.5% Chebyshev (MVUE) UCL	0.101
95% Modified-t UCL	0.0948	99% Chebyshev (MVUE) UCL	0.134
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.048	Data do not follow a Discernable Distribution (0.05)	Mark and State of Antonia
Theta Star	0.0517		
nu star	37.74		
Approximate Chi Square Value (.05)	24.68	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.089
Adjusted Chi Square Value	23.66	95% Jackknife UCL	0.003
Aujusteu Cili Square Value	23.00	95% Standard Bootstrap UCL	0.031
Anderson Deline Test Challalis	2 002		
Anderson-Darling Test Statistic	2.923	95% Bootstrap-t UCL	0.231
Anderson-Darling 5% Critical Value	0.762	95% Hall's Bootstrap UCL	0.2
Kolmogorov-Smirnov Test Statistic	0.42	95% Percentile Bootstrap UCL	0.096
Kolmogorov-Smirnov 5% Critical Value	0.208	95% BCA Bootstrap UCL	0.12
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.148
		97.5% Chebyshev(Mean, Sd) UCL	0.188
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.267
95% Approximate Gamma UCL	0.083		
95% Adjusted Gamma UCL	0.0865		
		Manuar a 1999 and 19 for an arrangement and another an arrange and the form as so a few and a second and a second and a second a second and a second a second and a second a second and a second and a second and a second a seco	
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.148
Potential UCL to Use esult or 1/2 DL (strontium)		Use 95% Chebyshev (Mean, Sd) UCL	0.148
	General S		0.148
	General S		0.148
Posult or 1/2 DL (strontium)  Number of Valid Samples		Statistics  Number of Unique Samples	
Number of Valid Samples Raw Statistics	18	Number of Unique Samples  Log-transformed Statistics	18
Pasult or 1/2 DL (strontium)  Number of Valid Samples  Raw Statistics  Minimum	26.6	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	18
Number of Valid Samples  Raw Statistics  Minimum  Maximum	26.6 93.6	Statistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	18 3.281 4.539
Posult or 1/2 DL (strontium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	26.6 93.6 57.32	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	18 3.281 4.539 3.989
Pasult or 1/2 DL (strontium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	26.6 93.6 57.32 52.85	Statistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	18 3.281 4.539
Posult or 1/2 DL (strontium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	26.6 93.6 57.32 52.85 19.7	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	18 3.281 4.539 3.989
Posult or 1/2 DL (strontium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation	26.6 93.6 57.32 52.85 19.7 0.344	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	18 3.281 4.539 3.989
Posult or 1/2 DL (strontium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	26.6 93.6 57.32 52.85 19.7	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	18 3.281 4.539 3.989
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	26.6 93.6 57.32 52.85 19.7 0.344	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	18 3.281 4.539 3.989
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	26.6 93.6 93.6 57.32 52.85 19.7 0.344 0.325	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	3.281 4.539 3.989 0.364
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	26.6 93.6 57.32 52.85 19.7 0.344 0.325	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	18 3.281 4.539 3.989
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	26.6 93.6 93.6 57.32 52.85 19.7 0.344 0.325	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	18 3.281 4.539 3.989 0.364
Psult or 1/2 DL (strontium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	26.6 93.6 57.32 52.85 19.7 0.344 0.325	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	18 3.281 4.539 3.989 0.364
Raw Statistics  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  Raw Statistics  Minimum  Mean  Median  SD  Coefficient of Variation Skewness  Raw Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	26.6 93.6 57.32 52.85 19.7 0.344 0.325	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	18 3.281 4.539 3.989 0.364
Raw Statistics  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level	26.6 93.6 57.32 52.85 19.7 0.344 0.325	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	3.281 4.539 3.989 0.364

95% Adjusted-CLT UCL	65.34	97.5% Chebyshev (MVUE) UCL	88.84
95% Modified-t UCL	65.45	99% Chebyshev (MVUE) UCL	107.4
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	7.18	Data appear Normal at 5% Significance Level	
Theta Star	7.983		
nu star	258.5		
Approximate Chi Square Value (.05)	222.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	64.96
Adjusted Chi Square Value	219	95% Jackknife UCL	65.4
		95% Standard Bootstrap UCL	64.93
Anderson-Darling Test Statistic	0.455	95% Bootstrap-t UCL	66.2
Anderson-Darling 5% Critical Value	0.74	95% Hall's Bootstrap UCL	65.45
Kolmogorov-Smirnov Test Statistic	0.186	95% Percentile Bootstrap UCL	64.92
Kolmogorov-Smirnov 5% Critical Value	0.204	95% BCA Bootstrap UCL	64.6
Data appear Gamma Distributed at 5% Significance L	_evel	95% Chebyshev(Mean, Sd) UCL	77.56
		97.5% Chebyshev(Mean, Sd) UCL	86.32
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	103.5
95% Approximate Gamma UCL	66.66		
95% Adjusted Gamma UCL	67.64		
Potential UCL to Use		Use 95% Student's-t UCL	65.4
ult or 1/2 DL (thallium)	General S		
ult or 1/2 DL (thallium)  Number of Valid Samples	General S	Statistics  Number of Unique Samples	12
Number of Valid Samples	Market Change Victoria	Number of Unique Samples	12
Number of Valid Samples Raw Statistics	18	Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples  Raw Statistics  Minimum	0.0455	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-3.09
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0455 0.63	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-3.09 -0.462
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0455 0.63 0.109	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-3.09 -0.462 -2.67
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0455 0.63 0.109 0.05	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-3.09 -0.462 -2.67
Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0455 0.63 0.109 0.05 0.16	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-3.09 -0.462 -2.67
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0455 0.63 0.109 0.05	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-3.09 -0.462 -2.67
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0455 0.63 0.109 0.05 0.16 1.47 2.87	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-3.09 -0.462 -2.67
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0455 0.63 0.109 0.05 0.16 1.47	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-3.09 -0.462 -2.67
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0455 0.63 0.109 0.05 0.16 1.47 2.87	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-3.09 -0.462 -2.67 0.77
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0455 0.63 0.109 0.05 0.16 1.47 2.87	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-3.09 -0.462 -2.67 0.77
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0455 0.63 0.109 0.05 0.16 1.47 2.87	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD tog Data  Lognormal Distribution Test	-3.09 -0.462 -2.67 0.77
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0455 0.63 0.109 0.05 0.16 1.47 2.87	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-3.09 -0.462 -2.67 0.77
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0455 0.63 0.109 0.05 0.16 1.47 2.87  Relevant UC 0.442 0.897	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-3.09 -0.462 -2.67 0.77 0.56
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0455 0.63 0.109 0.05 0.16 1.47 2.87	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-3.09 -0.462 -2.67 0.77 0.56 0.89
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0455 0.63 0.109 0.05 0.16 1.47 2.87  Relevant UC 0.442 0.897	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-3.09 -0.462 -2.67 0.77 0.56 0.89
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	0.0455 0.63 0.109 0.05 0.16 1.47 2.87  Relevant UC 0.442 0.897  0.174	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-3.09 -0.462 -2.67 0.77 0.56 0.89
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0455 0.63 0.109 0.05 0.16 1.47 2.87  Relevant UC 0.442 0.897	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-3.09 -0.462 -2.67 0.77 0.56 0.89
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	0.0455 0.63 0.109 0.05 0.16 1.47 2.87  Relevant UC 0.442 0.897  0.174	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-3.09 -0.462 -2.67 0.77 0.56 0.89

persons along, as a fixed delegative and post for engaged and engaged between the control of the property of the control of th			78.000
	0.101		14.5
Theta Star	0.101		
nu star	38.82	No-read Alia Chatistica	
Approximate Chi Square Value (.05)	25.55 0.0357	Nonparametric Statistics 95% CLT UCL	0.171
Adjusted Level of Significance Adjusted Chi Square Value	24.52	95% Jackknife UCL	0.171
Adjusted Cril Square Value	24.52	95% Standard Bootstrap UCL	0.174
Anderson-Darling Test Statistic	4.13	95% Standard Bootstrap UCL	0.166
Anderson-Darling 1est Statistic  Anderson-Darling 5% Critical Value	0.761	95% Bootstrap UCL	0.70
Kolmogorov-Smirnov Test Statistic	0.701	95% Percentile Bootstrap UCL	0.350
Kolmogorov-Smirnov 1est Statistic  Kolmogorov-Smirnov 5% Critical Value	0.397	95% BCA Bootstrap UCL	0.107
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.190
Data not Gamina Distributed at 5% Significance Le	/61	97.5% Chebyshev(Mean, Sd) UCL	0.273
Assuming Gamma Distribution			0.483
95% Approximate Gamma UCL	0.165	99% Chebyshev(Mean, Sd) UCL	0.403
	0.165		nga kanga menangangan mengangan dan kelabah saka me
95% Adjusted Gamma UCL	0.172		H
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.273
			**************************************
Result or 1/2 DL (tin)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	
Minimum	0.195	Minimum of Log Data	-1.635
Maximum	3.67	Maximum of Log Data	1.3
Mean	0.625	Mean of log Data	-0.897
Median	0.295	SD of log Data	0.805
SD	0.846		*******************
Coefficient of Variation	1.354		
Skewness	3.137		
	elevant UC	L Statistics	
Normal Distribution Test	0.500	Lognormal Distribution Test	0.700
Shapiro Wilk Test Statistic	0.533	Shapiro Wilk Test Statistic	0.763
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	***************************************
Assuming Normal Distribution	1	Assuming Lognormal Distribution	reducer of the second second
95% Student's-t UCL	0.972	95% H-UCL	0.897
95% UCLs (Adjusted for Skewness)	- The state of the	95% Chebyshev (MVUE) UCL	1.043
95% Adjusted-CLT UCL	1.111	97.5% Chebyshev (MVUE) UCL	1.256
95% Modified-t UCL	0.996	99% Chebyshev (MVUE) UCL	1.673
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1,131	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.552		anneren er de en eterskerte
nu star	40.73		
Approximate Chi Square Value (.05)	27.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	0.953
Adjusted Chi Square Value	26.04	95% Jackknife UCL	0.972

	le se de la companione de		
。		OFW Conduct Designation (CO)	0.050
Andrew Daily T. 100 (19)	0.000	95% Standard Bootstrap UCL	0.958 1.597
Anderson-Darling Test Statistic	2.399	95% Bootstrap-t UCL	2.128
Anderson-Darling 5% Critical Value	0.76	95% Hall's Bootstrap UCL	0.998
Kolmogorov-Smirnov Test Statistic	0.388	95% Percentile Bootstrap UCL	1,139
Kolmogorov-Smirnov 5% Critical Value	0.208	95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	1.139
Data not Gamma Distributed at 5% Significance Le	vei	97.5% Chebyshev(Mean, Sd) UCL	1.494
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.609
95% Approximate Gamma UCL	0.939	99% Chebyshev(Weah, Su) OCL	2.009
95% Adjusted Gamma UCL	0.939		
95 % Adjusted Gaillina OCL	0.976		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	1.494
Result or 1/2 DL (titanium)			
	General S	Statistics	
Number of Valid Samples	18	Number of Unique Samples	17
Raw Statistics		Log-transformed Statistics	
Minimum	3.41	Minimum of Log Data	1.227
Maximum	55.9	Maximum of Log Data	4.024
Mean	20.67	Mean of log Data	2.882
Median	18.7	SD of log Data	0.591
SD	11.65		
Coefficient of Variation	0.563		
Skewness	1.656		
F	Relevant UC	CL Statistics	y consider Codding of the place of the letter
Normal Distribution Test		Lognormal Distribution Test	4.04.000.000.000.000.000.000
Shapiro Wilk Test Statistic	0.87	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
		·	hans of a signature manage or the second signature of the signature of the second signature of the sec
Assuming Normal Distribution		Assuming Lognormal Distribution	14 E. P 14 F F E E E E E E E E E E E E E E E E E
95% Student's-t UCL	25.45	95% H-UCL	28.82
95% UCLs (Adjusted for Skewness)	ontononia de maiorino de mario	95% Chebyshev (MVUE) UCL	34.38
95% Adjusted-CLT UCL	26.33	97.5% Chebyshev (MVUE) UCL	40.17
95% Modified-t UCL	25.63	99% Chebyshev (MVUE) UCL	51.53
Gamma Distribution Test	4-1	Data Distribution	
k star (bias corrected)	3.002	Data Distributed at 5% Significance L	evel
Theta Star	6.886	The appear definite plantage of the particular o	
nu star	108.1		***************************************
Approximate Chi Square Value (.05)	85.08	Nonparametric Statistics	
Adjusted Level of Significance	0.0357	95% CLT UCL	25.19
Adjusted Chi Square Value	83.12	95% Jackknife UCL	25.45
Agased On Oquale Value	JU. 12	95% Standard Bootstrap UCL	25.43
Anderson-Darling Test Statistic	0.339	95% Bootstrap-t UCL	27.18
Anderson-Darling 7% Critical Value	0.339	95% Hall's Bootstrap UCL	31.11
Kolmogorov-Smirnov Test Statistic	0.744	95% Percentile Bootstrap UCL	25.41
Kolmogorov-Smirnov 5% Critical Value	0.205	95% BCA Bootstrap UCL	26.43
Normogorov-ornatiov 576 Critical Value	0.200	30 % BOX BOOKSHAP OOL	<u> </u>

Data appear Gamma Distributed at 5% Significance	l Level	95% Chebyshev(Mean, Sd) UCL	32.64
	-	97.5% Chebyshev(Mean, Sd) UCL	37.82
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	47.99
95% Approximate Gamma UCL	26.26		
95% Adjusted Gamma UCL	26.88	The second section is the second second second second second second second section in the second section second se	
			······································
Potential UCL to Use		Use 95% Approximate Gamma UCL	26.26
Double 4 10 D. Long ding.			
Result or 1/2 DL (vanadium)			
	General		4.0
Number of Valid Samples	18	Number of Unique Samples	18
Raw Statistics		Log-transformed Statistics	PPE - 181 PA - 164 SA SA - 1 A ST - 184 FACE OFFICE OFFI
Minimum	7.85	Minimum of Log Data	2.061
Maximum	45.8	Maximum of Log Data	3.824
Mean	19.66	Mean of log Data	2.884
Median	18.65	SD of log Data	0.449
SD	9.126		
Coefficient of Variation	0.464		
Skewness	1.322		***************************************
	Relevant UC	DL Statistics	y-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Normal Distribution Test	221 222 221 <b>2</b> 2 <b>12</b> 1446 <b>4</b> 470 41 611 1411 1412 141	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.905	Shapiro Wilk Test Statistic	0.981
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data appear Normal at 5% Significance Level	Lynna, m. m. m. m. m. m. m. m. m. m. m. m. m.	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	Maddan draining on a government
95% Student's-t UCL	23.4	95% H-UCL	24.54
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	28.98
95% Adjusted-CLT UCL	23.91	97.5% Chebyshev (MVUE) UCL	33.02
95% Modified-t UCL	23.51	99% Chebyshev (MVUE) UCL	40.95
	<u> </u>	<u></u>	
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	4.562	Data appear Normal at 5% Significance Level	
Theta Star	4.309		
nu star	164.2		
Approximate Chi Square Value (.05)	135.6	Nonparametric Statistics	~~~
Adjusted Level of Significance	0.0357		23.2
Adjusted Chi Square Value	133.1	95% Jackknife UCL 95% Standard Bootstrap UCL	23.4 23.08
Anderson-Darling Test Statistic	0.2	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	23.08
Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value	0.743	95% Bootstrap UCL	25.56
Kolmogorov-Smirnov Test Statistic	0.743		23.38
Kolmogorov-Smirnov 1est Statistic  Kolmogorov-Smirnov 5% Critical Value	0.0982	95% BCA Bootstrap UCL	23.66
Data appear Gamma Distributed at 5% Significance I		95% Chebyshev(Mean, Sd) UCL	29.03
Sau appear Gamma Distributed at 3 % Significance	_GYGI	97.5% Chebyshev(Mean, Sd) UCL	33.09
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	41.06
95% Approximate Gamma UCL	23.81	33 % Onebyshev(Mean, 34) UCL	71.00
	i I		
95% Adjusted Gamma UCL	24.26		

	la de la E		
Potential UCL to Use		Use 95% Student's-t UCL	23.4
esult or 1/2 DL (zinc)			
Number of Volid Semples	General Sta	ntistics  Number of Unique Samples	18
Number of Valid Samples	10	Number of Orlique Samples	10
Raw Statistics		Log-transformed Statistics	
Minimum	29.5	Minimum of Log Data	3.3
Maximum	5640	Maximum of Log Data	8.6
Mean	418.4	Mean of log Data	4.50
Median	53.95	SD of log Data	1.32
SD	1308		
Coefficient of Variation	3.125		
Skewness	4.195		
F	Relevant UCL	Statistics	the state of the s
Normal Distribution Test		Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.313	Shapiro Wilk Test Statistic	0.7
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assessment Distriction		An anni an Leonard Distribution	
Assuming Normal Distribution 95% Student's-t UCL	954.5	Assuming Lognormal Distribution  95% H-UCL	630.3
95% UCLs (Adjusted for Skewness)	304.0	95% Chebyshev (MVUE) UCL	542.9
95% Adjusted-CLT UCL	1251	97.5% Chebyshev (MVUE) UCL	686.4
95% Modified-t UCL	1005	99% Chebyshev (MVUE) UCL	968.2
	1000		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.403	Data do not follow a Discernable Distribution (0.05	``
Theta Star	1037		
nu star	14.52		
Approximate Chi Square Value (.05)	6.931	Nonparametric Statistics	v
Adjusted Level of Significance	0.0357	95% CLT UCL	925.3
Adjusted Chi Square Value	6.432	95% Jackknife UCL	954.5
		95% Standard Bootstrap UCL	894.1
Anderson-Darling Test Statistic	2.911	95% Bootstrap-t UCL	5665
Anderson-Darling 5% Critical Value	0.813	95% Hall's Bootstrap UCL	3753
Kolmogorov-Smirnov Test Statistic	0.278	95% Percentile Bootstrap UCL	1025
Kolmogorov-Smirnov 5% Critical Value	0.217	95% BCA Bootstrap UCL	1352
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	1762
		97.5% Chebyshev(Mean, Sd) UCL	2343
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	3485
95% Approximate Gamma UCL	876.6		
95% Adjusted Gamma UCL	944.6		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	3485

## APPENDIX A-4

NORTH OF MARLIN SOIL

	and the state of t	F 10 10 10 10 10 10 10 10 10 10 10 10 10		
G	ieneral UCL Statistics	for Full Data S	6ets	
User Selected Options				
	\1352 - Gulfco RI\risk	\eco\Tables for	Revisited SLERA\soil N of Marlin aug 2008.wst	
	)FF			nama de la company de la descripción de la company de la c
	5%	and the section of th		
	000	M. Falggiot regions system blocks for all and a specific systems (\$100). We say		
esult or 1/2 DL (1,1-dichloroethane	•)			
		General Stat		
Numt	ber of Valid Samples	19	Number of Unique Samples	19
Raw Stati			Log-transformed Statistics	
and of the second secon		6.4000E-5	Minimum of Log Data	<b>-</b> 9.657
	Maximum	0.518	Maximum of Log Data	-0.658
and the state of t	Mean	0.0286	Mean of log Data	-7.963
		8.7000E-5	SD of log Data	2.50
Maddiananatak - Matempleksiakako/wenanykilikikaepaktaniaanakanakilikikaepa	SD	0.119		
Co	pefficient of Variation	4.147		Mineral and the second
	Skewness	4.355		
	F	Relevant UCL S	Statistics	
Normal Distrib	ution Test		Lognormal Distribution Test	
- Shapi	ro Wilk Test Statistic	0.258	Shapiro Wilk Test Statistic	0.68
Shapir	o Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% S	Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal	I Distribution		Assuming Lognormal Distribution	
	95% Student's-t UCL	0.0757	95% H-UCL	0.17
95% UCLs (Adjuste	d for Skewness)	L	95% Chebyshev (MVUE) UCL	0.01
95%	6 Adjusted-CLT UCL	0.102	97.5% Chebyshev (MVUE) UCL	0.02
	95% Modified-t UCL	0.0803	99% Chebyshev (MVUE) UCL	0.03
Gamma Distrib	ution Test		Data Distribution	
k	star (bias corrected)	0.179	Data do not follow a Discernable Distribution (0.05	)
	Theta Star	0.16		V
	nu star	6.805		***************************************
Approximate Ch	i Square Value (.05)	2.064	Nonparametric Statistics	
Adjusted I	_evel of Significance	0.0369	95% CLT UCL	0.07
	ed Chi Square Value	1.844	95% Jackknife UCL	0.07
The state of the s	**************************************		95% Standard Bootstrap UCL	0.07
Anderson-I	Darling Test Statistic	4.123	95% Bootstrap-t UCL	2.61
	ng 5% Critical Value	0.899	95% Hall's Bootstrap UCL	1.44
	mirnov Test Statistic	0.386	95% Percentile Bootstrap UCL	0.08
	ov 5% Critical Value	0.221	95% BCA Bootstrap UCL	0.11
Data not Gamma Distributed a		l	95% Chebyshev(Mean, Sd) UCL	0.14
	7.0 Oiginnounce Le		97.5% Chebyshev(Mean, Sd) UCL	0.19
Assuming Gamma	Distribution		99% Chebyshev(Mean, Sd) UCL	0.13
	ximate Gamma UCL	0.0942	33 % Griebyshev(Medil, Gu) UCL	U.23
	ljusted Gamma UCL			
95% Ad	ijusteu Gamma UCL	0.105		

Maximum   0.313	Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.29
Number of Valid Samples   19	sult or 1/2 DL (1,1-dichloroethene)			
Number of Valid Samples   19				
Raw Statistics	Number of Volid Complex	<b>y</b> y		10
Minimum   1.4500E-4   Minimum of Log Data   -1.16	Number of Valid Samples	13	Number of Offique Samples	
Minimum   1.4500E-4   Minimum of Log Data   -1.65	Raw Statistics		Log-transformed Statistics	Automorphism (September)
Mean         0.0179         Mean of log Data         7.52/2           Median   1,0050E-4         SD of log Data         2.13           SD   0.0715         O.0715         SD of log Data         2.13           Coefficient of Variation   3,989   Skewness   4.348           A.348           Coefficient of Variation   Coefficient   Coefficient of Variation   Coefficient   Coefficie	Minimum	1.4500E-4	-	-8.839
Needlan   1,9050E-4   SD of log Data   2.1/2	Maximum	0.313	Maximum of Log Data	-1.162
Relevant UCL Statistics   Relevant UCL Statistics   Relevant UCL Statistics   Relevant UCL Statistics   Relevant UCL Statistics   Relevant UCL Statistics   Relevant UCL Statistics   Relevant UCL Statistics   Relevant UCL Statistics   Relevant UCL Statistic   O.56	Mean	0.0179	Mean of log Data	-7.528
Relevant UCL Statistics   A.348     Relevant UCL Statistics   Relevant UCL Statistics   Normal Distribution Test   Lognormal Distribution Test   Shapiro Wilk Test Statistic   0.267   Shapiro Wilk Critical Value   0.901   Shapiro Wilk Critical Value   0.901   Shapiro Wilk Critical Value   0.901   Data not Lognormal at 5% Significance Level   Data not Lognormal bistribution   95% Student's-t UCL   0.0464   95% Chebyshev (MVUE) UCL   0.0   95% Adjusted-Ct.T UCL   0.0624   97.5% Chebyshev (MVUE) UCL   0.0   95% Adjusted-Ct.T UCL   0.0491   99% Chebyshev (MVUE) UCL   0.0   95% Modified-t UCL   0.0491   99% Chebyshev (MVUE) UCL   0.0   0.	Median	1.9050E-4	SD of log Data	2.12
Relevant UCL Statistics   Relevant UCL Statistics	SD	0.0715		416111111111111111111111111111111111111
Normal Distribution Test	Coefficient of Variation	3.989		arconomico nuncio
Normal Distribution Test	Skewness	4.348		
Normal Distribution Test		Relevant UCI	Statistics	trafficheration describer
Shapiro Wilk Test Statistic   0.267   Shapiro Wilk Test Statistic   0.66   Shapiro Wilk Critical Value   0.901   Shapiro Wilk Critical Value   0				n 4 - 1 4 5 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -
Shapiro Wilk Critical Value   0.901   Shapiro Wilk Critical Value   0.901   Data not Normal at 5% Significance Level   Data not Lognormal Distribution   95% Student's-t UCL   0.0464   95% H-UCL   0.00   95% UCLs (Adjusted for Skewness)   95% Chebyshev (MVUE) UCL   0.00   95% Modified-t UCL   0.0624   97.5% Chebyshev (MVUE) UCL   0.00   95% Modified-t UCL   0.0491   99% Chebyshev (MVUE) UCL   0.00   99% Chebyshev (Mean, Sd) UCL   0.01   99% Chebys	Shapiro Wilk Test Statistic	0.267	_	0.64
Assuming Normal Distribution  95% Student's-t UCL   0.0464   95% H-UCL   0.0695   95% UCLs (Adjusted for Skewness)   95% Chebyshev (MVUE) UCL   0.07   95% Adjusted-CLT UCL   0.0624   97.5% Chebyshev (MVUE) UCL   0.07   95% Modified-t UCL   0.0491   99% Chebyshev (MVUE) UCL   0.07   95% Modified-t UCL   0.0491   99% Chebyshev (MVUE) UCL   0.07   95% Modified-t UCL   0.0491   99% Chebyshev (MVUE) UCL   0.05	Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
95% Student's-t UCL   0.0464   95% H-UCL   0.00   95% UCLs (Adjusted for Skewness)   95% Chebyshev (MVUE) UCL   0.00   95% Adjusted-CLT UCL   0.0624   97.5% Chebyshev (MVUE) UCL   0.00   95% Modified-t UCL   0.0491   99% Chebyshev (MVUE) UCL   0.00   Gamma Distribution Test   Data Distribution	Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
95% Student's-t UCL   0.0464   95% H-UCL   0.00   95% UCLs (Adjusted for Skewness)   95% Chebyshev (MVUE) UCL   0.00   95% Adjusted-CLT UCL   0.0624   97.5% Chebyshev (MVUE) UCL   0.00   95% Modified-t UCL   0.0491   99% Chebyshev (MVUE) UCL   0.00   Gamma Distribution Test   Data Distribution	Accuming Normal Distribution		Accuming Lognormal Distribution	
95% UCLs (Adjusted for Skewness)         95% Chebyshev (MVUE) UCL         0.0           95% Adjusted-CLT UCL         0.0624         97.5% Chebyshev (MVUE) UCL         0.0           95% Modified-t UCL         0.0491         99% Chebyshev (MVUE) UCL         0.0           95% Modified-t UCL         0.0491         99% Chebyshev (MVUE) UCL         0.0           Gamma Distribution Test         Data Distribution         0.05           K star (bias corrected)         0.211         Data do not follow a Discernable Distribution (0.05)           Theta Star         0.0851         0.0851           nu star         8.005         Nonparametric Statistics           Adjusted Chi Square Value (.05)         2.738         Nonparametric Statistics           Adjusted Chi Square Value         2.476         95% Jackknife UCL         0.0           Adjusted Chi Square Value         2.476         95% Standard Bootstrap UCL         0.0           Anderson-Darling Test Statistic         4.354         95% Bootstrap UCL         0.6           Anderson-Darling Test Statistic         0.427         95% Percentile Bootstrap UCL         0.3           Kolmogorov-Smirnov Test Statistic         0.427         95% Percentile Bootstrap UCL         0.0           Kolmogorov-Smirnov Test Statistic         95% Chebyshev(Mean, Sd) UCL	······································	0.0464		0.04
95% Adjusted-CLT UCL 95% Modified+ UCL 0.0624 97.5% Chebyshev (MVUE) UCL 95% Modified+ UCL 0.0491 99% Chebyshev (MVUE) UCL 0.05  Gamma Distribution Test Data Distribution  k star (bias corrected) 0.211 Data do not follow a Discernable Distribution (0.05)  Theta Star 0.0851		0.0404		
Standard Chi Square Value   C.05   Anderson-Darling Test Statistic   A.354   Standard Bootstrap UCL   C.05		0.0624	. ,	
Nonparametric Statistics   Nonparametric Statistics				0.02
Nonparametric Statistics   Nonparametric Statistics				
Theta Star   0.0851	Gamma Distribution Test		Data Distribution	
nu star         8.005           Approximate Chi Square Value (.05)         2.738         Nonparametric Statistics           Adjusted Level of Significance         0.0369         95% CLT UCL         0.00           Adjusted Chi Square Value         2.476         95% Jackknife UCL         0.00           Adjusted Chi Square Value         2.476         95% Standard Bootstrap UCL         0.00           Anderson-Darling Test Statistic         4.354         95% Bootstrap UCL         0.6           Anderson-Darling 5% Critical Value         0.884         95% Hall's Bootstrap UCL         0.3           Kolmogorov-Smirnov Test Statistic         0.427         95% Percentile Bootstrap UCL         0.00           Kolmogorov-Smirnov 5% Critical Value         0.219         95% BCA Bootstrap UCL         0.00           Data not Gamma Distributed at 5% Significance Level         95% Chebyshev(Mean, Sd) UCL         0.00           97.5% Chebyshev(Mean, Sd) UCL         0.11           95% Approximate Gamma UCL         0.0524           95% Adjusted Gamma UCL         0.058	k star (bias corrected)	0.211	Data do not follow a Discernable Distribution (0.05)	)
Approximate Chi Square Value (.05) 2.738 Nonparametric Statistics  Adjusted Level of Significance 0.0369 95% CLT UCL 0.04  Adjusted Chi Square Value 2.476 95% Jackknife UCL 0.04  Adjusted Chi Square Value 2.476 95% Standard Bootstrap UCL 0.04  Anderson-Darling Test Statistic 4.354 95% Bootstrap-t UCL 0.66  Anderson-Darling 5% Critical Value 0.884 95% Hall's Bootstrap UCL 0.33  Kolmogorov-Smirnov Test Statistic 0.427 95% Percentile Bootstrap UCL 0.05  Kolmogorov-Smirnov 5% Critical Value 0.219 95% BCA Bootstrap UCL 0.05  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.05  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.15  95% Approximate Gamma UCL 0.0524  95% Adjusted Gamma UCL 0.058	Theta Star	0.0851		
Adjusted Level of Significance 0.0369 95% CLT UCL 0.00 Adjusted Chi Square Value 2.476 95% Jackknife UCL 0.00 Anderson-Darling Test Statistic 4.354 95% Bootstrap UCL 0.60 Anderson-Darling 5% Critical Value 0.884 95% Hall's Bootstrap UCL 0.31 Kolmogorov-Smirnov Test Statistic 0.427 95% Percentile Bootstrap UCL 0.01 Kolmogorov-Smirnov 5% Critical Value 0.219 95% BCA Bootstrap UCL 0.01 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.01 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.11 95% Approximate Gamma UCL 0.0524 95% Adjusted Gamma UCL 0.058		i		411441111111111111111111111111111111111
Adjusted Chi Square Value 2.476 95% Jackknife UCL 0.04 95% Standard Bootstrap UCL 0.04 Anderson-Darling Test Statistic 4.354 95% Bootstrap-t UCL 0.66 Anderson-Darling 5% Critical Value 0.884 95% Hall's Bootstrap UCL 0.33 Kolmogorov-Smirnov Test Statistic 0.427 95% Percentile Bootstrap UCL 0.05 Kolmogorov-Smirnov 5% Critical Value 0.219 95% BCA Bootstrap UCL 0.05 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.05 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.11 95% Approximate Gamma UCL 0.0524 95% Adjusted Gamma UCL 0.058		1		,
Anderson-Darling Test Statistic 4.354 95% Bootstrap UCL 0.66  Anderson-Darling 5% Critical Value 0.884 95% Hall's Bootstrap UCL 0.39  Kolmogorov-Smirnov Test Statistic 0.427 95% Percentile Bootstrap UCL 0.09  Kolmogorov-Smirnov 5% Critical Value 0.219 95% BCA Bootstrap UCL 0.09  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 0.13  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.13  95% Approximate Gamma UCL 0.0524  95% Adjusted Gamma UCL 0.058				
Anderson-Darling Test Statistic 4.354 95% Bootstrap-t UCL 0.66 Anderson-Darling 5% Critical Value 0.884 95% Hall's Bootstrap UCL 0.38 Kolmogorov-Smirnov Test Statistic 0.427 95% Percentile Bootstrap UCL 0.09 Kolmogorov-Smirnov 5% Critical Value 0.219 95% BCA Bootstrap UCL 0.09 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.09 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.19 95% Approximate Gamma UCL 0.0524 95% Adjusted Gamma UCL 0.058	Adjusted Chi Square Value	2.476		
Anderson-Darling 5% Critical Value 0.884 95% Hall's Bootstrap UCL 0.39  Kolmogorov-Smirnov Test Statistic 0.427 95% Percentile Bootstrap UCL 0.09  Kolmogorov-Smirnov 5% Critical Value 0.219 95% BCA Bootstrap UCL 0.09  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.09  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.19  95% Approximate Gamma UCL 0.0524  95% Adjusted Gamma UCL 0.058			•	
Kolmogorov-Smirnov Test Statistic 0.427 95% Percentile Bootstrap UCL 0.09 Kolmogorov-Smirnov 5% Critical Value 0.219 95% BCA Bootstrap UCL 0.09 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 0.19 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.19 95% Approximate Gamma UCL 0.0524 95% Adjusted Gamma UCL 0.058	_	į į	-	
Kolmogorov-Smirnov 5% Critical Value 0.219 95% BCA Bootstrap UCL 0.00  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00  97.5% Chebyshev(Mean, Sd) UCL 0.12  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.13  95% Approximate Gamma UCL 0.0524  95% Adjusted Gamma UCL 0.058		<u> </u>		
Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 0.13  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.13  95% Approximate Gamma UCL 0.0524  95% Adjusted Gamma UCL 0.058			·	
97.5% Chebyshev(Mean, Sd) UCL 0.13  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.18  95% Approximate Gamma UCL 0.0524  95% Adjusted Gamma UCL 0.058	_	ŧ .	1	
Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.18 95% Approximate Gamma UCL 0.0524 95% Adjusted Gamma UCL 0.058	Data not Gamma Distributed at 5% Significance Le	vei		
95% Approximate Gamma UCL 0.0524 95% Adjusted Gamma UCL 0.058	Assuming Commo Distribution			
95% Adjusted Gamma UCL 0.058	_	0.0524	55 % Chebyshev(Iviedil, Su) UCL	U, 10
Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.1	- 1			partingers married in a Madhardto.
			Use 99% Chebyshev (Mean, Sd) UCI	0.18

	General	Statistics	
Number of Valid Samples	19	Number of Unique Samples	18
Raw Statistics	· · · · · · · · · · · · · · · · · · ·	Log-transformed Statistics	
учиния за применя при применя на	4.6000E-5	Minimum of Log Data	-9.987
Maximum		Maximum of Log Data	-1.732
Mean			-8.083
արությունները արդարարականությունների անանագործությունների անագործության հանդարան հայտարան անականության անագործ	6.2500E-5	SD of log Data	2.49
SD			
Coefficient of Variation	3.799		e u mar ber par (le Maldred (MAR)).
Skewness	4.329		- 19-2 - 2 M-2 - 2 LEW POLITICA PLANSMEN
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.282	Shapiro Wilk Test Statistic	0.741
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.901
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
	ha sign kara da kera asar arawa yapera resperinga kata pakin da barak ka		
Assuming Normal Distribution	7 0007	Assuming Lognormal Distribution	0.440
95% Student's-t UCL	0.0267	95% H-UCL	0.143
95% UCLs (Adjusted for Skewness)	0.0007	95% Chebyshev (MVUE) UCL	0.016
95% Adjusted-CLT UCL 95% Modified-t UCL	0.0357	1	0.022
95% Modified-t OCL	0.0282	99% Chebyshev (MVUE) UCL	0.033
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.209	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	0.0508		***************************************
nu star	7.952		
Approximate Chi Square Value (.05)	2.708	Nonparametric Statistics	anders of the second second second second second second second second second second second second second second
Adjusted Level of Significance	0.0369	95% CLT UCL	0.025
Adjusted Chi Square Value	2.447	95% Jackknife UCL	0.026
		95% Standard Bootstrap UCL	0.025
Anderson-Darling Test Statistic	3.162	95% Bootstrap-t UCL	0.349
Anderson-Darling 5% Critical Value	0.885	95% Hall's Bootstrap UCL	0.153
Kolmogorov-Smirnov Test Statistic	0.358	95% Percentile Bootstrap UCL	0.029
Kolmogorov-Smirnov 5% Critical Value	0.22	95% BCA Bootstrap UCL	0.038
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.051
	T	97.5% Chebyshev(Mean, Sd) UCL	0.068
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.103
95% Approximate Gamma UCL	0.0312		
95% Adjusted Gamma UCL	0.0345		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.103
esult or 1/2 DL (2-butanone)			
	General S	Statistics	Martin Martin
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	wateritation or annual
Minimum	1.2600E-4	Minimum of Log Data	-8.979

Maximum	0.208	Maximum of Log Data	-1.57
Mean	0.0139	Mean of log Data	-6.223
Median	0.0029	SD of log Data	1.907
SD	0.0471		
Coefficient of Variation	3.378		
Skewness	4.338		manana manana manana manana manana manana manana manana manana manana manana manana manana manana manana manana
	Relevant UCL		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.288	Shapiro Wilk Test Statistic	0.858
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.901
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	1.004.001.000.000.000.000.000.000.000.00
95% Student's-t UCL	0.0327	95% H-UCL	0.077
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.032
95% Adjusted-CLT UCL	0.0432	97.5% Chebyshev (MVUE) UCL	0.042
95% Modified-t UCL	0.0344	99% Chebyshev (MVUE) UCL	0.061
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.326	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0427		
nu star	12.4		
Approximate Chi Square Value (.05)	5.488	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.031
Adjusted Chi Square Value	5.091	95% Jackknife UCL	0.032
		95% Standard Bootstrap UCL	0.031
Anderson-Darling Test Statistic	2.196	95% Bootstrap-t UCL	0.25
Anderson-Darling 5% Critical Value	0.834	95% Hall's Bootstrap UCL	0.129
Kolmogorov-Smirnov Test Statistic	0.356	95% Percentile Bootstrap UCL	0.035
Kolmogorov-Smirnov 5% Critical Value	0.214	95% BCA Bootstrap UCL	0.046
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.061
		97.5% Chebyshev(Mean, Sd) UCL	0.081
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.121
95% Approximate Gamma UCL	0.0315		
95% Adjusted Gamma UCL	0.0339		<b>W</b> E I THE TAXABLE PROPERTY OF THE TAXABLE PARTY.
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.121
esult or 1/2 DL (2-methylnaphthalene)			
Number of Valid Samples	General St	latistics  Number of Unique Samples	19
Transo of Valid Camples		Transaction of the property of	
Raw Statistics	Section of the sectio	Log-transformed Statistics	
Minimum	0.005	Minimum of Log Data	-5.298
Maximum	0.053	Maximum of Log Data	-2.937
Mean	0.0103	Mean of log Data	-4.915
Median	0.0059	SD of log Data	0.663
SD	0.0131		pate per con describe per colon e en esper et cons
Coefficient of Variation	1.267		

Skewness	2.781		
	Relevant UC		
Normal Distribution Test	0.440	Lognormal Distribution Test	0.40
Shapiro Wilk Test Statistic	0.416	Shapiro Wilk Test Statistic	0.49
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	<b></b>
95% Student's-t UCL	0.014	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)	0.011	95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.015	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0142	99% Chebyshev (MVUE) UCL	0.0
	0.0 / 12		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.491	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0069		
nu star	107.3		
Approximate Chi Square Value (.05)	84.44	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.0
Adjusted Chi Square Value	83.51	95% Jackknife UCL	0.01
		95% Standard Bootstrap UCL	0.01
Anderson-Darling Test Statistic	9.26	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.765	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.468	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.149	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.02
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.03
95% Approximate Gamma UCL	0.0131		
95% Adjusted Gamma UCL	0.0133		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0
sult or 1/2 DL (4,4'-dde)			
	General S	Statistics	
Number of Valid Samples	36	Number of Unique Samples	31
Raw Statistics		Log-transformed Statistics	
	1.8950E-4	Minimum of Log Data	-8.57
Maximum	0.0149	Maximum of Log Data	-4.20
Mean	7.0636E-4	Mean of log Data	-8.210
Median	2.1150E-4	SD of log Data	0.84
SD	0.0024		
Coefficient of Variation	3.483		
Skewness	5.808		
	Relevant UC	I Statistics	
Normal Distribution Test	relevant OC	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.222	Shapiro Wilk Test Statistic	0.4

			(4.1.1)
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Appuration Name of Distribution		Assuming Lagrange Distribution	
Assuming Normal Distribution	0.0044	Assuming Lognormal Distribution 95% H-UCL	E 2062E /
95% Student's-t UCL	0.0014		
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	
95% Adjusted-CLT UCL	0.0018	97.5% Chebyshev (MVUE) UCL	7.5362E-4
95% Modified-t UCL	0.0014	99% Chebyshev (MVUE) UCL	9.7511E-4
Gamma Distribution Test		Data Distribution	The section of the se
k star (bias corrected)	0.603	Data do not follow a Discernable Distribution (0.0)	5)
Theta Star	0.0011		
nu star	43.4		
Approximate Chi Square Value (.05)	29,29	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.001
Adjusted Chi Square Value	28.77	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	10.81	95% Bootstrap-t UCL	0.047
Anderson-Darling 5% Critical Value	0.799	95% Hall's Bootstrap UCL	0.047
	0.799	95% Percentile Bootstrap UCL	0.008
Kolmogorov-Smirnov Test Statistic			0.001
Kolmogorov-Smirnov 5% Critical Value	0.154	95% BCA Bootstrap UCL	
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.003
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.004
95% Approximate Gamma UCL	0.0010		
95% Adjusted Gamma UCL	0.0010		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.002
esult or 1/2 DL (4,4'-ddt)			
	General S		- 00
Number of Valid Samples	36	Number of Unique Samples	28
Raw Statistics		Log-transformed Statistics	eranafrarrasida enfentillan entire gam
Minimum	7.3000E-5	Minimum of Log Data	-9.525
Maximum	0.0108	Maximum of Log Data	-4.528
Mean	7.0422E-4	Mean of log Data	-8.523
Median	8.3500E-5	SD of log Data	1.323
SD	0.0019		
Coefficient of Variation	2.703		
Skewness	4.722		
F	Relevant UC	: Statistics	
Normal Distribution Test	.S.S.Yuni OO	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.372	Shapiro Wilk Test Statistic	0.755
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	0.000
95% Student's-t UCL	0.0012	95% H-UCL	ی.9022E

	Taller of A		
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0014	97.5% Chebyshev (MVUE) UCL	0.001
95% Modified-t UCL	0.0012	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test	***************************************	Data Distribution	orak tau, rasa da na labihi sa lab
k star (bias corrected)	0.479	Data do not follow a Discernable Distribution (0.05)	···········
Theta Star	0.0014		
nu star	34.46		
Approximate Chi Square Value (.05)	22.04	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.001
Adjusted Chi Square Value	21.58	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	4.944	95% Bootstrap-t UCL	0.002
Anderson-Darling 5% Critical Value	0.812	95% Hall's Bootstrap UCL	0.003
Kolmogorov-Smirnov Test Statistic	0.31	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.155	95% BCA Bootstrap UCL	0.001
ا Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.002
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
95% Approximate Gamma UCL	0.0011		
95% Adjusted Gamma UCL	0.0011		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.003
or 1/2 DL (acenaphthene)			
	General St		
or 1/2 DL (acenaphthene)  Number of Valid Samples	General St	atistics  Number of Unique Samples	19
			19
Number of Valid Samples		Number of Unique Samples	19
Number of Valid Samples Raw Statistics	36	Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples  Raw Statistics  Minimum	0.0049	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-5.3
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0049 0.157	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.3 -1.852 -4.898
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0049 0.157 0.0142	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.3 -1.852 -4.898
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0049 0.157 0.0142 0.0055	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.3 -1.852 -4.898
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0049 0.157 0.0142 0.0055 0.03	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.3 -1.852 -4.898
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.3 -1.852
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0049 0.157 0.0142 0.0055 0.03 2.115	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics	-5.3 -1.852 -4.898
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Raw Statistics	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-5.3 -1.852 -4.898 0.825
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 elevant UCL	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.3 -1.852 -4.898 0.825
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Raw Statistics	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-5.3 -1.852 -4.898 0.829
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Roughles  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 elevant UCL	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-5.3 -1.852 -4.898 0.829
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Round Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 elevant UCL 0.345 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-5.3 -1.852 -4.898 0.825 0.485 0.935
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 elevant UCL	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-5.3 -1.852 -4.898 0.829 
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Remain  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 elevant UCL 0.345 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.3 -1.852 -4.898 0.825 0.489 0.935
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 elevant UCL 0.345 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.3 -1.852 -4.898 0.825 0.489 0.935 0.014 0.017
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Remain  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0049 0.157 0.0142 0.0055 0.03 2.115 4.095 elevant UCL 0.345 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.3 -1.852 -4.898 0.829 

k star (bias corrected)	0.85	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0167		and the Propositional States or Place and p
nu star	61.21		
Approximate Chi Square Value (.05)	44.22	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.022
Adjusted Chi Square Value	43.56	95% Jackknife UCL	0.022
		95% Standard Bootstrap UCL	0.022
Anderson-Darling Test Statistic	9.363	95% Bootstrap-t UCL	0.052
Anderson-Darling 5% Critical Value	0.781	95% Hall's Bootstrap UCL	0.056
Kolmogorov-Smirnov Test Statistic	0.497	95% Percentile Bootstrap UCL	0.022
Kolmogorov-Smirnov 5% Critical Value	0.152	95% BCA Bootstrap UCL	0.027
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.036
		97.5% Chebyshev(Mean, Sd) UCL	0.045
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.064
95% Approximate Gamma UCL	0.0197		anit anit anit anit anit anit anit anit
95% Adjusted Gamma UCL	0.02		
Potential UCL to Use	I	Use 95% Chebyshev (Mean, Sd) UCL	0.036
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	та станов живо на проводения на прости до надражения на прости на прости на прости на прости на прости на прист	
lesult or 1/2 DL (aluminum)			
	didahahaman muumma 2-1		
	General S	Statistics	\$1.01.00.00.00.00.00.\$1.00.\$1.00.8
Number of Valid Samples	36	Number of Unique Samples	32
	1		
Raw Statistics	***************************************	Log-transformed Statistics	(
Minimum	1810	Minimum of Log Data	7.501
Maximum	18300	Maximum of Log Data	9.815
Mean	11971	. Mean of log Data	9.317
Median	11700	SD of log Data	0.437
SD	3979		w-101-104-14-15-11-11-11-11-11-11-11-11-11-11-11-11-
Coefficient of Variation	0.332		***************************************
Skewness	-0.25		
	Relevant UC	2 Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.962	Shapiro Wilk Test Statistic	0.833
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data appear Normal at 5% Significance Level	0.000	Data not Lognormal at 5% Significance Level	<b>0.000</b>
Dad appear Normal at 0 % Organication Lovel		Data for Edgliottial at 070 Oightication Editor	
Assuming Normal Distribution		Assuming Lognormal Distribution	~\************************************
95% Student's-t UCL	13092	95% H-UCL	14053
95% UCLs (Adjusted for Skewness)	10032	95% Chebyshev (MVUE) UCL	16219
	12022	- ,	17956
95% Adjusted-CLT UCL	13032	97.5% Chebyshev (MVUE) UCL	
95% Modified-t UCL	13087	99% Chebyshev (MVUE) UCL	21367
Gamma Distribution Test	<b>1</b>	Data Distribution	
k star (bias corrected)	6.424	Data appear Normal at 5% Significance Level	
Theta Star	1863 '		······································
nu star	462.6		
Approximate Chi Square Value (.05)	413.7	Nonparametric Statistics	2/////
Adjusted Level of Significance	0.0428	95% CLT UCL	13062

			lange of the second
Adjusted Obj Course Ville	A11.0	95% Jackknife UCL	12002
Adjusted Chi Square Value	411.6		13092 13034
Anderson-Darling Test Statistic	0.592	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	13062
Anderson-Darling 1est Statistic  Anderson-Darling 5% Critical Value	0.592	95% Hall's Bootstrap UCL	13058
Kolmogorov-Smirnov Test Statistic	0.749		13052
Kolmogorov-Smirnov 5% Critical Value	0.0919	95% BCA Bootstrap UCL	13052
Data appear Gamma Distributed at 5% Significance	1	95% BCA BOOKstrap UCL 95% Chebyshev(Mean, Sd) UCL	14862
Data appear Gamma Distributed at 5% Significance	Levei	97.5% Chebyshev(Mean, Sd) UCL	16113
Assuming Gamma Distribution	de la companya del companya de la companya del companya de la comp	99% Chebyshev(Mean, Sd) UCL	18569
95% Approximate Gamma UCL	13385	33/8 Chebyshev(Mean, 30) OCL	10003
95% Adjusted Gamma UCL	13453		
33 % Adjusted Gamma OCL	10400		
Potential UCL to Use		Use 95% Student's-t UCL	13092
Result or 1/2 DL (anthracene)  Number of Valid Samples	General S	Statistics  Number of Unique Samples	24
Raw Statistics		Log-transformed Statistics	Q. 40 Jan - 1980an - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -
Minimum	0.0037	Minimum of Log Data	-5.594
Maximum	- 0.264	Maximum of Log Data	-1.332
Mean	0.0215	Mean of log Data	-4.761
Median	0.006	SD of log Data	1.024
SD	0.0516		
Coefficient of Variation	2.397		
Skewness	4.003		***************************************
	Contract of the Contract of th		
	Relevant UC		
Normal Distribution Test	0.070	Lognormal Distribution Test	0.004
Shapiro Wilk Test Statistic	0.372	Shapiro Wilk Test Statistic	0.624
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	den multipalitin et illustrit i illustrit produktion
Assuming Normal Distribution	**************************************	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0361	95% H-UCL	0.022
95% UCLs (Adjusted for Skewness)	0.0001	95% Chebyshev (MVUE) UCL	0.022
95% Adjusted-CLT UCL	0.0418		0.0204
95% Modified-t UCL	0.037	99% Chebyshev (MVUE) UCL	0.0422
	1		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.623	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0346		-b/-14b.com-a-ventestero
nu star	44.87		· · · · · · · · · · · · · · · · · · ·
Approximate Chi Square Value (.05)	30.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.0357
Adjusted Chi Square Value	29.96	95% Jackknife UCL	0.036
	7	95% Standard Bootstrap UCL	0.036
Anderson-Darling Test Statistic	7.709	95% Bootstrap-t UCL	0.0846
Anderson-Darling 5% Critical Value	0.797	95% Hall's Bootstrap UCL	0.0941
Kolmogorov-Smirnov Test Statistic	0.452	95% Percentile Bootstrap UCL	0.037

Kolmogorov-Smirnov 5% Critical Value	0.154	95% BCA Bootstrap UCL	0.043
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.059
		97.5% Chebyshev(Mean, Sd) UCL	0.07
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.10
95% Approximate Gamma UCL	0.0317		
95% Adjusted Gamma UCL	0.0323		ironiinadoni mirari
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.10
esult or 1/2 DL (antimony)			
	General Sta		
Number of Valid Samples	36	Number of Unique Samples	23
Raw Statistics		Log-transformed Statistics	
Minimum	0.095	Minimum of Log Data	-2.354
Maximum	8.09	Maximum of Log Data	2.09
Mean	1.416	Mean of log Data	-0.752
Median	0.125	SD of log Data	1.64
SD	1.779		
Coefficient of Variation	1.256		
Skewness	1.716		
F	elevant UCL	Statistics	andre proceedings and the fermion
Normal Distribution Test	## Television of the television of television	Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.738	Shapiro Wilk Test Statistic	0.73
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.917	95% H-UCL	4.43
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	4.3
95% Adjusted-CLT UCL	1.994	97.5% Chebyshev (MVUE) UCL	5.45
95% Modified-t UCL	1.931	99% Chebyshev (MVUE) UCL	7.69
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.538	Data do not follow a Discernable Distribution (0.05	<b>)</b>
Theta Star	2.632		
nu star	38.74		
Approximate Chi Square Value (.05)	25.48	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	1.90
Adjusted Chi Square Value	25	95% Jackknife UCL	1.9
		95% Standard Bootstrap UCL	1.9
Anderson-Darling Test Statistic	4.128	95% Bootstrap-t UCL	2.06
Anderson-Darling 5% Critical Value	0.806	95% Hall's Bootstrap UCL	2.16
Kolmogorov-Smirnov Test Statistic	0.349	95% Percentile Bootstrap UCL	1.93
Kolmogorov-Smirnov 5% Critical Value	0.155	95% BCA Bootstrap UCL	2.03
Data not Gamma Distributed at 5% Significance Le	/el	95% Chebyshev(Mean, Sd) UCL	2.7
		97.5% Chebyshev(Mean, Sd) UCL	3.26
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	4.36
95% Approximate Gamma UCL	2.152	and the second s	

000/ A.f. 1.10	0.405		7.0
95% Adjusted Gamma UCL	2.195		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	4.36
	ii		
esult or 1/2 DL (aroclor-1254)			
	General Stat	istics	<b>MMINIMAN</b>
Number of Valid Samples	36	Number of Unique Samples	34
Raw Statistics	•	Log-transformed Statistics	\$100 min and 1770 min to high
Minimum	0.0019	Minimum of Log Data	-6.269
Maximum	0.0938	Maximum of Log Data	-2.367
Mean	0.0056	Mean of log Data	-5.848
Median	0.0021	SD of log Data	0.76
SD	0.0154		
Coefficient of Variation	2.735		
Skewness	5.714		
Normal Distribution Test	elevant UCL S	Statistics  Lognormal Distribution Test	ing and the second seco
Shapiro Wilk Test Statistic	0.254	Shapiro Wilk Test Statistic	0.55
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level	0.000	Data not Lognormal at 5% Significance Level	
Data not resimilate to a significance core			
Assuming Normal Distribution		Assuming Lognormal Distribution	J. J. G.
95% Student's-t UCL	0.0099	95% H-UCL	0.00
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0124	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0104	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.826	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0068		
nu star	59.44		
Approximate Chi Square Value (.05)	42.71	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.00
Adjusted Chi Square Value	42.07	95% Jackknife UCL	0.00
The state of the s		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	8.285	95% Bootstrap-t UCL	0.04
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	0.03
Kolmogorov-Smirnov Test Statistic	0.394	95% Percentile Bootstrap UCL	0.01
Kolmogorov-Smirnov 5% Critical Value	0.152	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Lev	el	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.02
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.03
95% Approximate Gamma UCL	0.0078		
95% Adjusted Gamma UCL	0.0079		
	· ·		

	^I	Statistics	
Number of Valid Samples	36	Number of Unique Samples	32
David Markinski			
Raw Statistics		Log-transformed Statistics	
Minimum	0.105	Minimum of Log Data	-2.254
Maximum	5.69	Maximum of Log Data	1.73
Median Median	2.573 2.53	Mean of log Data  SD of log Data	0.67
` SD	2.55 1.369	SD OI IOY DAIA	0.90
Coefficient of Variation	0.532		
Skewness	0.332		
	olovont III	CL Statistics	***************************************
Normal Distribution Test	cicvatit U	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.938	Shapiro Wilk Test Statistic	0.73
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data appear Normal at 5% Significance Level	**************************************	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	2.959	95% H-UCL	4.6
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	5.57
95% Adjusted-CLT UCL	2.959	97.5% Chebyshev (MVUE) UCL	6.65
95% Modified-t UCL	2.96	99% Chebyshev (MVUE) UCL	8.77
Gamma Distribution Test	enchant factor of American for the factor of	Data Distribution	- Luce o norther drawn are
k star (bias corrected)	1.84	Data appear Normal at 5% Significance Level	
Theta Star	1.399		
nu star	132.5		man-man-man-
Approximate Chi Square Value (.05)	106.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	2.94
Adjusted Chi Square Value	105.8	95% Jackknife UCL	2.95
		95% Standard Bootstrap UCL	2,93
Anderson-Darling Test Statistic	2.399	95% Bootstrap-t UCL	2.95
Anderson-Darling 5% Critical Value	0.76	95% Hall's Bootstrap UCL	2.96
Kolmogorov-Smirnov Test Statistic	0.231	95% Percentile Bootstrap UCL	2.93
Kolmogorov-Smirnov 5% Critical Value	0.149	95% BCA Bootstrap UCL	2.96
Data not Gamma Distributed at 5% Significance Lev	el .	95% Chebyshev(Mean, Sd) UCL	3.56
		97.5% Chebyshev(Mean, Sd) UCL	3.99
Assuming Gamma Distribution	ha a manana m	99% Chebyshev(Mean, Sd) UCL	4.84
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	3.189		and an argument of sectors the
Potential UCL to Use	yearn ann ann an an an an	Use 95% Student's-t UCL	2.95
sult or 1/2 DL (barium)	version de la constanta de la		
	General	Statistics	
Number of Valid Samples	36	Number of Unique Samples	31

Raw Statistics		Log-transformed Statistics	
Minimum	46.1	Minimum of Log Data	3.831
Maximum	476	Maximum of Log Data	6.165
Mean	142.1	Mean of log Data	4.802
Median	121	SD of log Data	0.53
SD	95.9		
Coefficient of Variation	0.675		
Skewness	2.311		
F	Relevant UC	:L Statistics	анаминатарыны палужы
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.718	Shapiro Wilk Test Statistic	0.934
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	our months are a second of consequent
Assuming Normal Distribution		Assuming Lognormal Distribution	aregolisation (published to Presidence) (principle)
95% Student's-t UCL	169.1	95% H-UCL	166.7
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	196.1
95% Adjusted-CLT UCL	174.9	97.5% Chebyshev (MVUE) UCL	220.5
95% Modified-t UCL	170.1	99% Chebyshev (MVUE) UCL	268.6
COR WIGHTING COL		and a second sec	200.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.139	Data do not follow a Discernable Distribution (0.05	j)
Theta Star	45.26		
nu star	226		, yes, 11(1), mana taga and an an design of a second
Approximate Chi Square Value (.05)	192.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	168.4
Adjusted Chi Square Value	190.8	95% Jackknife UCL	169.1
Adjusted Oil Oquale Value	100.0	95% Standard Bootstrap UCL	168
Anderson Douling Toot Statistic	1.456	95% Bootstrap-t UCL	180.8
Anderson-Darling Test Statistic			
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	182.1
Kolmogorov-Smirnov Test Statistic	0.199	95% Percentile Bootstrap UCL	168.2
Kolmogorov-Smirnov 5% Critical Value	0.148	95% BCA Bootstrap UCL	175.1
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	211.7
		97.5% Chebyshev(Mean, Sd) UCL	241.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	301.1
95% Approximate Gamma UCL	167.1		
95% Adjusted Gamma UCL	168.3		
Potential UCL to Use	HIP-RAFAR-LESS AND ASSESSMENT OF THE SECOND	Use 95% Chebyshev (Mean, Sd) UCL	211.7
i Otential OOL IO USE		OSE 30/0 Chebyshev (Wedni, 30) UCL	411./
ılt or 1/2 DL (benzo(a)anthracene)			
	attribute de la companya de la companya de la companya de la companya de la companya de la companya de la comp		
Number of Valid Samples	General S	Statistics  Number of Unique Samples	25
Number of Valid Samples		Trumper of Offique Samples	
Raw Statistics		Log-transformed Statistics	
Minimum	0.0025	Minimum of Log Data	-5.985
Maximum	1.18	Maximum of Log Data	0.166
	0.000		4 000
Mean	0.068	Mean of log Data	-4.862

SD	0.239		
Coefficient of Variation	3.512		
Skewness	4.117		,,
		-	
· R	elevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.304	Shapiro Wilk Test Statistic	0.58
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.135	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.163	97.5% Chebyshev (MVUE) UCL	0.06
95% Modified-t UCL	0.14	99% Chebyshev (MVUE) UCL	0.08
	VIII.		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.307	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.222		,
nu star	22.1		
Approximate Chi Square Value (.05)	12.41	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.1
Adjusted Chi Square Value	12.08	95% Jackknife UCL	0.1
Adjusted offi oquare value	12.00	95% Standard Bootstrap UCL	0.1
Anderson-Darling Test Statistic	9.41	95% Bootstrap-t UCL	0.49
Anderson-Darling Fest Statistic	0.853	95% Hall's Bootstrap UCL	0.4
Kolmogorov-Smirnov Test Statistic	0.502	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value		,	0.1.
	0.159	95% BCA Bootstrap UCL	
Data not Gamma Distributed at 5% Significance Lev	el	95% Chebyshev(Mean, Sd) UCL	0.24
		97.5% Chebyshev(Mean, Sd) UCL	0.3
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.40
95% Approximate Gamma UCL	0.121		
95% Adjusted Gamma UCL	0.124		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.40
1 00011111 001 10 000		Gac as it Griedyshiev (inicall, etc.) Co.	V. T.
ult or 1/2 DL (benzo(a)pyrene)	•••••••••••••••••••••••••••••••••••••••		gy - manned the reference
	General Sta	tistics	
Number of Valid Samples	36	Number of Unique Samples	28
Raw Statistics		Log-transformed Statistics	
Minimum	0.0045	Minimum of Log Data	-5.40
Maximum	1.42	Maximum of Log Data	0.3
Mean	0.0922	Mean of log Data	-4.33
Median	0.0056	SD of log Data	1.62
SD	0.278		
301			
Coefficient of Variation	3.017		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.361	Shapiro Wilk Test Statistic	0.651
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.171	95% H-UCL	0.117
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.115
95% Adjusted-CLT UCL	0.203	97.5% Chebyshev (MVUE) UCL	0.145
95% Modified-t UCL	0.176	99% Chebyshev (MVUE) UCL	0.205
·			
Gamma Distribution Test		Data Distribution	Actual fragmental Security Differentials
k star (blas corrected)	0.335	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.275		artina berekalda da karan ballar artikalar da karan ballar artikalar artikalar artikalar artikalar artikalar a
nu star	24.15		
Approximate Chi Square Value (.05)	13.96	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.169
Adjusted Chi Square Value	13.61	95% Jackknife UCL	0.171
		95% Standard Bootstrap UCL	0.168
Anderson-Darling Test Statistic	6.99	95% Bootstrap-t UCL	0.5
Anderson-Darling 5% Critical Value	0.847	95% Hall's Bootstrap UCL	0.495
Kolmogorov-Smirnov Test Statistic	0.422	95% Percentile Bootstrap UCL	0.175
Kolmogorov-Smirnov 5% Critical Value	0.158	95% BCA Bootstrap UCL	0.217
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	0.294
		97.5% Chebyshev(Mean, Sd) UCL	0.382
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.554
95% Approximate Gamma UCL	0.16		
95% Adjusted Gamma UCL	0.164		Light Control of the
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.554
	~ T		na gara naga a mara manana manga banasai an shirebibi ka ka
	***************************************		
Result or 1/2 DL (benzo(b)fluoranthene)			
			***************************************
Number of Valid Occupies	General S		20
Number of Valid Samples	36	Number of Unique Samples	32
Raw Statistics		Log-transformed Statistics	
Minimum	0.0036	_	-5.625
Maximum	1.62	Maximum of Log Data	0.482
	0.12	Mean of log Data	-4.074
Mean		_	
Median SD	0.0062 0.319	SD of log Data	1.886
Coefficient of Variation	2.649		
Skewness	3.981		
Skewiless	J.301		
ח	Relevant UC	1 Statistics	
Normal Distribution Test	Cicvaint UC	Lognormal Distribution Test	-14: 14:
Shapiro Wilk Test Statistic	0.412	Shapiro Wilk Test Statistic	0.774
Shapiro Wilk Test Statistic	0.412	Shapiro Wilk Critical Value	0.774
Data not Normal at 5% Significance Level	0.555	Data not Lognormal at 5% Significance Level	0.303
Data not recinial at the organicalice Level		Data not Lognormal at 0 % Significance Level	, - <del>                                    </del>

Assuming Normal Distribution 95% Student's-t UCL			
OE0/ Ox		Assuming Lognormal Distribution	
	_ 0.21	95% H-UCL	0.315
95% UCLs (Adjusted for Skewness)	,	95% Chebyshev (MVUE) UCL	0.257
95% Adjusted-CLT UCL	0.245	97.5% Chebyshev (MVUE) UCL	0.329
95% Modified-t UCL	0.216	99% Chebyshev (MVUE) UCL	0.471
Gamma Distribution Test		Data Distribution	
k star (bias corrected	) 0.334	Data do not follow a Discernable Distribution (0.05)	
Theta Sta	r 0.36		ir saaraa va giid ka dastaba addaaddaad
nu sta	r 24.08		
Approximate Chi Square Value (.05)	13.91	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.208
Adjusted Chi Square Value	13.56	95% Jackknife UCL	0.21
		95% Standard Bootstrap UCL	0.207
Anderson-Darling Test Statistic	4.213	95% Bootstrap-t UCL	0.469
Anderson-Darling 5% Critical Value	0.847	95% Hall's Bootstrap UCL	0.615
Kolmogorov-Smirnov Test Statistic	0.321	95% Percentile Bootstrap UCL	0.214
Kolmogorov-Smirnov 5% Critical Value	0.158	95% BCA Bootstrap UCL	0.267
Data not Gamma Distributed at 5% Significance L	.evel	95% Chebyshev(Mean, Sd) UCL	0,352
and the second of the second o		97.5% Chebyshev(Mean, Sd) UCL	0.452
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.649
95% Approximate Gamma UCL	. 0.208		11d1 les de 1990 - Phys 114(, es me
95% Adjusted Gamma UCL	. 0.214		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.649
	General Stat		de gland i jarreg blick (* blandskart i jarre 18 - Angel Personal III (* 18 - 18 - 18 - 18 - 18 - 18 - 18 - 18
Number of Valid Samples		Number of Unique Samples	
	and a mercury measure were measured annual		29
Barre Chatian		Les transformed Challeties	29
Raw Statistics	- L 0 0046	Log-transformed Statistics	
Minimun		Minimum of Log Data	-5.368
Minimun Maximun	n 1.28	Minimum of Log Data  Maximum of Log Data	-5.368 0.247
Minimun Maximun Meal	n 1.28 n 0.0961	Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.368 0.247 -4.016
Minimun Maximun Meal Mediai	n 1.28 n 0.0961 n 0.0058	Minimum of Log Data  Maximum of Log Data	-5.368 0.247 -4.016
Minimun Maximun Meal Mediar	n 1.28 n 0.0961 n 0.0058 O 0.24	Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.368 0.247 -4.016
Minimun Maximun Meal Medial SI Coefficient of Variation	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497	Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.368 0.247 -4.016
Minimun Maximun Meal Mediar	n 1.28 n 0.0961 n 0.0058 O 0.24 n 2.497	Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.368 0.247
Minimun  Maximun  Meai  Median  SI  Coefficient of Variation  Skewness	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.368 0.247 -4.016
Minimun  Maximun  Meal  Medial  St  Coefficient of Variation  Skewness  Normal Distribution Test	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-5.368 0.247 -4.016 1.685
Minimun  Maximun  Meal  Medial  SI  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.368 0.247 -4.016 1.685
Minimun  Maximun  Meal  Medial  St  Coefficient of Variation  Skewness  Normal Distribution Test	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-5.368 0.247 -4.016 1.685
Minimun  Maximun  Meal  Medial  SI  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-5.368 0.247 -4.016 1.685
Minimun  Maximun  Meal  Medial  St  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019 Relevant UCL S	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-5.368 0.247 -4.016 1.688 0.756 0.938
Minimun  Maximun  Meal  Medial  SI  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019 Relevant UCL S	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-5.368 0.247 -4.016 1.685 0.756 0.935
Minimun  Maximun  Meal  Medial  St  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	n 1.28 n 0.0961 n 0.0058 D 0.24 n 2.497 s 4.019 P Relevant UCL S 0.935	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-5.368 0.247 -4.016 1.685 0.756 0.935

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Gamma Distribution Test	- E- 101, M. D. W.	Data Distribution	
k star (bias corrected)	0.38	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.253		
nu star	27.35		
Approximate Chi Square Value (.05)	16.42	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.16
Adjusted Chi Square Value	16.03	95% Jackknife UCL	0.16
	***************************************	95% Standard Bootstrap UCL	0.16
Anderson-Darling Test Statistic	4.565	95% Bootstrap-t UCL	0.28
Anderson-Darling 5% Critical Value	0.836	95% Hall's Bootstrap UCL	0.40
Kolmogorov-Smirnov Test Statistic	0.351	95% Percentile Bootstrap UCL	0.17
Kolmogorov-Smirnov 5% Critical Value	0.157	95% BCA Bootstrap UCL	0.20
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.27
		97.5% Chebyshev(Mean, Sd) UCL	0.34
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.49
95% Approximate Gamma UCL	0.16		
95% Adjusted Gamma UCL	0.164		
	***************************************		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.49
	General Stat		
Number of Valid Samples	General Stat	istics  Number of Unique Samples	25
Number of Valid Samples Raw Statistics			25
		Number of Unique Samples	25 -5.203
Raw Statistics	36	Number of Unique Samples  Log-transformed Statistics	
Raw Statistics Minimum	0.0055	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-5.203
Raw Statistics  Minimum  Maximum	0.0055 0.799	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.203 -0.224 -4.26
Raw Statistics  Minimum  Maximum  Mean	0.0055 0.799 0.0601	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.203 -0.224 -4.26
Raw Statistics  Minimum  Maximum  Mean  Median	0.0055 0.799 0.0601 0.0085	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.20 -0.22 -4.26
Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0055 0.799 0.0601 0.0085 0.169	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-5.203 -0.224 -4.26
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.203 -0.224
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0055 0.799 0.0601 0.0085 0.169 2.819	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.203 -0.224 -4.26
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.203 -0.224 -4.26
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-5.203 -0.224 -4.26 1.29
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.203 -0.224 -4.26 1.29
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-5.203 -0.224 -4.26 1.29
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-5.203 -0.224 -4.26 1.29
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875 elevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-5.203 -0.224 -4.26 1.29 0.62 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875 elevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-5.203 -0.224 -4.26 1.29 0.62 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875 elevant UCL S 0.357 0.935	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.203 -0.224 -4.26 1.29 0.62 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875 elevant UCL S 0.357 0.935	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-5.203 -0.224 -4.26 1.29 0.62 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL  Gamma Distribution Test	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875 elevant UCL S 0.357 0.935  0.108  0.126 0.111	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-5.203 -0.224 -4.26 1.29 0.65 0.93 0.00 0.00 0.01
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	0.0055 0.799 0.0601 0.0085 0.169 2.819 3.875 elevant UCL S 0.357 0.935	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-5.20 -0.22 -4.26 1.29 0.66 0.96 0.00 0.00 0.01

	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
Approximate Chi Square Value (.05)	19.12	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.107
Adjusted Chi Square Value	18.7	95% Jackknife UCL	0.108
		95% Standard Bootstrap UCL	0.104
Anderson-Darling Test Statistic	7.875	95% Bootstrap-t UCL	0.283
Anderson-Darling 5% Critical Value	0.824	95% Hail's Bootstrap UCL	0.309
Kolmogorov-Smirnov Test Statistic	0.467	95% Percentile Bootstrap UCL	0.106
Kolmogorov-Smirnov 5% Critical Value	0.156	95% BCA Bootstrap UCL	0.13
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.183
	**************************************	97.5% Chebyshev(Mean, Sd) UCL	0.236
Assuming Gamma Distribution	dedigina darem ererinen araba.	99% Chebyshev(Mean, Sd) UCL	0.341
95% Approximate Gamma UCL	0.0968		
95% Adjusted Gamma UCL	0.099		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.341
esult or 1/2 DL (beryllium)			
	General S	Statistics	
Number of Valid Samples	36	Number of Unique Samples	28
Raw Statistics	(-tabellaber, -t, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Log-transformed Statistics	
Minimum	0.013	Minimum of Log Data	-4.343
Maximum	2.88	Maximum of Log Data	1.058
Mean	0.752	Mean of log Data	-0.509
Median	0.695	SD of log Data	0.881
SD	0.461		
Coefficient of Variation	0.613		
Skewness	2.77		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	····
Shapiro Wilk Test Statistic	0.759	Shapiro Wilk Test Statistic	0.702
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	0.000	Assuming Lognormal Distribution	1 0 1
95% Student's-t UCL	0.882	95% H-UCL	1.24
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.503
95% Adjusted-CLT UCL	0.916	97.5% Chebyshev (MVUE) UCL	1.776
95% Modified-t UCL	0.888	99% Chebyshev (MVUE) UCL	2.312
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	2.199	Data do not follow a Discernable Distribution (0.05	
Theta Star	0.342		
nu star	158.3		·4····4·1·1·4·4···
Approximate Chi Square Value (.05)	130.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0428		0.879
Adjusted Chi Square Value	129.1	95% Jackknife UCL	0.882
	erantaga era den et erantaga den den den plane de a censos. La capa	95% Standard Bootstrap UCL	0.874
Anderson-Darling Test Statistic	2.229	95% Bootstrap-t UCL	0.94

Anderson-Darling 5% Critical Value	0.757	95% Hall's Bootstrap UCL	1.53
Kolmogorov-Smirnov Test Statistic	0.204	95% Percentile Bootstrap UCL	0.885
Kolmogorov-Smirnov 5% Critical Value	0.148	95% BCA Bootstrap UCL	0.921
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	1.087
		97.5% Chebyshev(Mean, Sd) UCL	1.232
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.516
95% Approximate Gamma UCL	0.914		
95% Adjusted Gamma UCL	0.923		,
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	1.087
Result or 1/2 DL (bis(2-ethylhexyl)phthalate)			
	General	Obstitution	
Number of Valid Samples	36	Number of Unique Samples	34
Raw Statistics		Log-transformed Statistics	
Minimum	0.0065		-5.036
Maximum	0.0003	Maximum of Log Data	-1.431
Mean	0.239		-3.438
Median	0.0428	- Coloren and the contraction of the contraction of the color of the c	0.703
			0.703
SD SD	0.0446		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Coefficient of Variation	1.041		
Skewness	3.194		
	Relevant UC	CL Statistics	
Normal Distribution Test	# 884 C CC 1 1 1 - 1 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1	Lognormal Distribution Test	an and an easy of any stage of a second and a second and a second and a second and a second and a second and a
Shapiro Wilk Test Statistic	0.598	Shapiro Wilk Test Statistic	0.925
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level	an defent, fridefen der en vin vin de vin en	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	**************************************	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0554	95% H-UCL	0.052
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.063
95% Adjusted-CLT UCL	0.0593	97.5% Chebyshev (MVUE) UCL	0.073
95% Modified-t UCL	0.0561	99% Chebyshev (MVUE) UCL	0.092
Gamma Distribution Test		Data Distribution	·
k star (bias corrected)	1.75	Data do not follow a Discernable Distribution (0.08	5)
Theta Star	0.0245		
nu star	126		
Approximate Chi Square Value (.05)	101.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0428		0.055
Adjusted Chi Square Value	100.1	95% Jackknife UCL	0.055
,	***************************************	95% Standard Bootstrap UCL	0.054
Anderson-Darling Test Statistic	2.221	95% Bootstrap-t UCL	0.067
Anderson-Darling 5% Critical Value	0.761	95% Hall's Bootstrap UCL	0.069
Kolmogorov-Smirnov Test Statistic	0.701	95% Percentile Bootstrap UCL	0.056
Kolmogorov-Smirnov 7est statistic	0.22	95% BCA Bootstrap UCL	0.059
Data not Gamma Distributed at 5% Significance Le		95% BCA BOOISITAP UCL 95% Chebyshev(Mean, Sd) UCL	0.039
Data not Gamma Distributed at 5% Significance Le	vel		
		97.5% Chebyshev(Mean, Sd) UCL	0.08

Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.117
95% Approximate Gamma UCL	0.0534		
95% Adjusted Gamma UCL	0.054		
Potential UCL to Use		Line 059/ Chahushay/Maga Cd) UCI	0.075
FORHILIAI OOL (0 OSE		Use 95% Chebyshev (Mean, Sd) UCL	0.073
esult or 1/2 DL (boron)			management and the same of the same of the same of the same of the same of the same of the same of the same of
	General S	tatistics	
Number of Valid Samples	36	Number of Unique Samples	35
	,	<u>' ' ' ' '                            </u>	AND THE PROPERTY OF THE PROPER
Raw Statistics		Log-transformed Statistics	
Minimum	0.555	Minimum of Log Data	-0.589
Maximum	39.2	Maximum of Log Data	3.669
Mean	7.576	Mean of log Data	1.383
Median	5.27	SD of log Data	1.32
SD	7.826		, . V
Coefficient of Variation	1.033		
Skewness	2.044		
Chowness	2.011		
R	televant UCI		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.801	Shapiro Wilk Test Statistic	0.863
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	9.779	95% H-UCL	17.75
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	20.02
95% Adjusted-CLT UCL	10.2	97.5% Chebyshev (MVUE) UCL	24.73
95% Modified-t UCL	9.853	99% Chebyshev (MVUE) UCL	33.99
Gamma Distribution Test	***************************************	Data Distribution	addaga anna - Sanada (Shinasa II) ain
k star (bias corrected)	0.852	Data do not follow a Discernable Distribution (0.05	)
Theta Star	8.892		
nu star	61.34		
Approximate Chi Square Value (.05)	44.33	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	9.721
Adjusted Chi Square Value	43.67	95% Jackknife UCL	9.779
		95% Standard Bootstrap UCL	9.629
Anderson-Darling Test Statistic	1.037	95% Bootstrap-t UCL	10.46
Anderson-Darling 5% Critical Value	0.781	95% Hall's Bootstrap UCL	10.98
Kolmogorov-Smirnov Test Statistic	0.18	95% Percentile Bootstrap UCL	9.74
Kolmogorov-Smirnov 7est statistic	0.152	95% BCA Bootstrap UCL	10.28
Data not Gamma Distributed at 5% Significance Lev	<u> </u>	95% Chebyshev(Mean, Sd) UCL	13.26
Para not Gamma Pistributed at 5% Significance Lev	7 G1	97.5% Chebyshev(Mean, Sd) UCL	15.72
Assuming Court Disk in the			
Assuming Gamma Distribution	40.45	99% Chebyshev(Mean, Sd) UCL	20.55
95% Adjusted Camma UCL	10.48	- The state of the	······································
95% Adjusted Gamma UCL	10.64		
Potential UCL to Use	i	Use 99% Chebyshev (Mean, Sd) UCL	20.55
, oxonical ook to ook		555 6675 GHGBJOHOV (MOBIL, GG) GGE	_0.00

ult or 1/2 DL (bromoform)			
	General S	tatistics	11-411-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Number of Valid Samples	19	Number of Unique Samples	19
	orthogon and a second a second and a second		
Raw Statistics	10 05005 5	Log-transformed Statistics	0.500
	6.8500E-5 0.018	Minimum of Log Data  Maximum of Log Data	-9.589
Maximum Mean	<u> </u>	Mean of log Data	-4.01 -8.05
	9.2500E-5	SD of log Data	2.05
SD	<u> </u>	SD 01 log Data	2.00
Coefficient of Variation	1.992		
Skewness	1		
Normal Distribution Test	Relevant UCL	Statistics  Lognormal Distribution Test	<b></b>
Shapiro Wilk Test Statistic	0.561	Shapiro Wilk Test Statistic	0.68
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% Significance Level	1 0.301	Data not Lognormal at 5% Significance Level	
			ger. <b>V</b> . 100 marthe grap for 1911
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0042	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0048	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0043	99% Chebyshev (MVUE) UCL	0.01
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	0.32	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0073		
nu star	Įl		
Approximate Chi Square Value (.05)	5.322	Nonparametric Statistics	and of the little and
Adjusted Level of Significance	0.0369	95% CLT UCL	0.00
Adjusted Chi Square Value	4.931	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	2.937	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.835	95% Hall's Bootstrap UCL	0.01
Kolmogorov-Smirnov Test Statistic	0.421	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.214	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution	Valletunilla in the land and the land	99% Chebyshev(Mean, Sd) UCL	0.01
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0053 0.0057		
93% Aujustea Gamma UCL	0.005/		paged conservation (gallery and a security
	1	į	0.0

General Statistics

Number of Valid Samples	36	Number of Unique Samples	29
Number of Valid Samples	30	Number of Offique Samples	29
Raw Statistics		Log-transformed Statistics	to the curt of the committee of the committee of
Minimum	0.0045	Minimum of Log Data	-5.389
Maximum	0.151	Maximum of Log Data	-1.89
Mean	0.0125	Mean of log Data	-4.877
Median	0.0067	SD of log Data	0.70
SD	0.0255		
Coefficient of Variation	2.039		
Skewness	4.982		
F	Relevant UCI	L Statistics	of weeks to the second or grey consuma
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.307	Shapiro Wilk Test Statistic	0.51
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0197	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)	0.0107	95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0233	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0203	99% Chebyshev (MVUE) UCL	0.02
Gamma Distribution Test		Data Distribution	***************************************
	1.069		·····
k star (bias corrected) Theta Star	0.0117	Data do not follow a Discernable Distribution (0.05	)
nu star	76.97		
Approximate Chi Square Value (.05)	57.76	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.01
Adjusted Level of Significance Adjusted Chi Square Value	57	95% Jackknife UCL	0.01
Aujusteu Citi Squate Value	37	95% Standard Bootstrap UCL	0.01
Anderson-Darling Test Statistic	9 024	95% Bootstrap-t UCL	0.03
	8.924	95% Bootstrap UCL	0.03
Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic	0.773	·	0.02
	0.488	95% Percentile Bootstrap UCL	······································
Kolmogorov-Smirnov 5% Critical Value  Data not Gamma Distributed at 5% Significance Le	0.151	95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	0.02
Data not Gamma Distributed at 5% Significance Le	vei	97.5% Chebyshev(Mean, Sd) UCL	0.03
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.05
95% Approximate Gamma UCL	0.0167	33 % Chebyshev(Weah, 30) OCL	0.00
95% Adjusted Gamma UCL	0.0169		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.03
sult or 1/2 DL (cadmium)			
Niveshar 52/284 Occupant	General S		26
Number of Valid Samples	36	Number of Unique Samples	26
Raw Statistics		Log-transformed Statistics	
Minimum	0.003	Minimum of Log Data	-5.80
Maximum	0.8	Maximum of Log Data	-0.22

the second second second			
Mean	0.193	Mean of log Data	-3.263
Median	0.0105	SD of log Data	2.139
SD	0.239		
Coefficient of Variation	1.24		
Skewness	0.849		
	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.76	Shapiro Wilk Test Statistic	0.786
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.26	95% H-UCL	1.572
95% UCLs (Adjusted for Skewness)	J	95% Chebyshev (MVUE) UCL	1.004
95% Adjusted-CLT UCL	0.265	97.5% Chebyshev (MVUE) UCL	1.302
95% Modified-t UCL	0.261	99% Chebyshev (MVUE) UCL	1.887
Gamma Distribution Test		Data Distribution	and a section of the
k star (bias corrected)	0.39	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.494		
nu star	28.11		-d-14 ableqq q q
Approximate Chi Square Value (.05)	17.02	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0428	95% CLT UCL	0.25
Adjusted Chi Square Value	16.62	95% Jackknife UCL	0.26
		95% Standard Bootstrap UCL	0.25
Anderson-Darling Test Statistic	3.561	95% Bootstrap-t UCL	0.26
Anderson-Darling 5% Critical Value	0.833	95% Hall's Bootstrap UCL	0.26
Kolmogorov-Smirnov Test Statistic	0.313	95% Percentile Bootstrap UCL	0.26
Kolmogorov-Smirnov 5% Critical Value	0.157	95% BCA Bootstrap UCL	0.26
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.36
		97.5% Chebyshev(Mean, Sd) UCL	0.44
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.59
95% Approximate Gamma UCL	0.319		
95% Adjusted Gamma UCL	0.326		***************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.59
esult or 1/2 DL (carbon disulfide)			
Number of Valid Samples	General S	Statistics  Number of Unique Samples	19
	Landonamana		
Raw Statistics		Log-transformed Statistics	
	4.4000E-5	Minimum of Log Data	-10.03
Maximum	0.0284	Maximum of Log Data	-3.561
Mean	0.0028	Mean of log Data	-8.197
Median SD	5.8000E-5 0.0066	SD of log Data	2.3
Coefficient of Variation	2.34		
Coefficient of Variation	<u> </u>		mangaga tali summen s

L	Relevant UCL S	tation	
Normal Distribution Test	relevant OCL 3	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.478	Shapiro Wilk Test Statistic	0.733
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% Significance Level	0.501	Data not Lognormal at 5% Significance Level	0.00
Assuming Normal Distribution	**************************************	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0054	95% H-UCL	0.05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0066	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0057	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.284	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.01		
nu star	10.8		***************************************
Approximate Chi Square Value (.05)	4.45	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.0
Adjusted Chi Square Value	4.098	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	2.428	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.845	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.384	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0069		
95% Adjusted Gamma UCL	0.0075		war serie was a miskeline
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0
It or 1/2 DL (chromium)			
	General Stat		
Number of Valid Samples	36	Number of Unique Samples	33
Raw Statistics		Log-transformed Statistics	
Minimum	7.76	Minimum of Log Data	2.0
Maximum	128	Maximum of Log Data	4.8
Mean	17.17	Mean of log Data	2.6
Median	12.8	SD of log Data	0.4
SD	19.6		- Christian de la constitución d
Coefficient of Variation	1.142		
Skewness	5.455		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
F	Relevant UCL S	tatistics	
Managaran Tana		Lognormal Distribution Test	
Normal Distribution Test	1	Lognormal Distribution Test	

Shapiro Wilk Critical Value 0.935

Shapiro Wilk Critical Value

0.935

Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
· · · · · · · · · · · · · · · · · · ·		Dua not cognimia at o a digimicanto com	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	22.69	95% H-UCL	18.7
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	21.82
95% Adjusted-CLT UCL	25.72	97.5% Chebyshev (MVUE) UCL	24.38
95% Modified-t UCL	23.18	99% Chebyshev (MVUE) UCL	29.4
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.545	Data do not follow a Discernable Distribution (0.05)	
Theta Star	6.745	Data do not rollow a Dissortiable Distribution (6:30)	***************************************
nu star	183.3		
Approximate Chi Square Value (.05)	153	Nonparametric Statistics	
	0.0428	95% CLT UCL	22.54
Adjusted Level of Significance			
Adjusted Chi Square Value	151.7	95% Jackknife UCL	22.69
		95% Standard Bootstrap UCL	22.43
Anderson-Darling Test Statistic	3.618	95% Bootstrap-t UCL	37.28
Anderson-Darling 5% Critical Value	0.755	95% Hall's Bootstrap UCL	43.24
Kolmogorov-Smirnov Test Statistic	0.223	95% Percentile Bootstrap UCL	23.43
Kolmogorov-Smirnov 5% Critical Value	0.148	95% BCA Bootstrap UCL	27.01
Data not Gamma Distributed at 5% Significance Lev	/el	95% Chebyshev(Mean, Sd) UCL	31.41
		97.5% Chebyshev(Mean, Sd) UCL	37.57
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	49.67
95% Approximate Gamma UCL	20.57		gga en eng, ggggg ger eng enden byde
95% Adjusted Gamma UCL	20.74		
Potential UCL to Use		Use 95% Student's-t UCL	22.69
		or 95% Modified-t UCL	23.18
esult or 1/2 DL (chrysene)			
	General Stat	istics	
Number of Valid Samples	36	Number of Unique Samples	33
Raw Statistics		Log-transformed Statistics	p.d. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Minimum	0.0040	Minimum of Log Data	-5.502
Maximum	1.3	Maximum of Log Data	0.26
Mean	0.0885	Mean of log Data	-4.382
Median	0.0050	SD of log Data	1.63
SD	0.265		
Coefficient of Variation	3.001		
Skewness	3.989		.,
R	elevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.361	Shapiro Wilk Test Statistic	0.68
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	-	Assuming Lognormal Distribution	

UEO/ 11/21 = // 3:11=1=3 f=1 /21-11-11 /			0.44
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.100	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.11
	0.193		
95% Modified-t UCL	0.168	99% Chebyshev (MVUE) UCL	0.2
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.334	Data do not follow a Discernable Distribution (0.05	
Theta Star	0.265		
nu star	24.07		
Approximate Chi Square Value (.05)	13.9	Nonparametric Statistics	and oder - gard help odd dagger had da baser som
Adjusted Level of Significance	0.0428	95% CLT UCL	0.16
Adjusted Chi Square Value	13.55	95% Jackknife UCL	0.16
		95% Standard Bootstrap UCL	0.16
Anderson-Darling Test Statistic	6.548	95% Bootstrap-t UCL	0.4
Anderson-Darling 5% Critical Value	0.847	95% Hall's Bootstrap UCL	0.48
Kolmogorov-Smirnov Test Statistic	0.37	95% Percentile Bootstrap UCL	0.10
Kolmogorov-Smirnov 5% Critical Value	0.158	95% BCA Bootstrap UCL	0.2
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.2
		97.5% Chebyshev(Mean, Sd) UCL	0.3
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.5
95% Approximate Gamma UCL	0.153		
95% Adjusted Gamma UCL	0.157		ing national description with the second
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.5
It or 1/2 DL (cis-1,2-dichloroethene)			
	General S		10
It or 1/2 DL (cis-1,2-dichloroethene)  Number of Valid Samples	General S	Statistics  Number of Unique Samples	19
	V		19
Number of Valid Samples  Raw Statistics	V	. Number of Unique Samples	
Number of Valid Samples  Raw Statistics	19	Number of Unique Samples  Log-transformed Statistics	-9.88
Number of Valid Samples  Raw Statistics  Minimum	19    5.1000E-5	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-9.88 -0.001
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	5.1000E-5 0.999	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-9.88 -0.001 -8.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	5.1000E-5 0.999 0.0541	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.88 -0.001 -8.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	5.1000E-5 0.999 0.0541 6.7000E-5	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.88 -0.001 -8.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	5.1000E-5 0.999 0.0541 6.7000E-5 0.229	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-9.88 -0.001 -8.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-9.88 -0.001 -8.27
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-9.88 -0.001 -8.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test	-9.88 -0.001 -8.27 2.7
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-9.88 -0.001 -8.27 2.7
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-9.88- -0.001 -8.27- 2.7-
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-9.88 -0.001 -8.27 2.7
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-9.88 -0.001 -8.27 2.7
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-9.88 -0.001 -8.27 2.7 0.60
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-9.884 -0.001 -8.277 2.77 0.66 0.99
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI 0.253 0.901	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.884 -0.001 -8.27' 2.7' 0.63 0.90
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI 0.253 0.901	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.88- -0.001 -8.27- 2.7- 0.63 0.9- 0.03
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	5.1000E-5 0.999 0.0541 6.7000E-5 0.229 4.232 4.356 Relevant UCI 0.253 0.901	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-9.88 -0.001 -8.27 2.7 0.6 0.9

k star (bias corrected)	0.157	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.345		
nu star	5.949		
Approximate Chi Square Value (.05)	1.614	Nonparametric Statistics	ranga mendanga dan meri
Adjusted Level of Significance	0.0369	95% CLT UCL	0.14
Adjusted Chi Square Value	1,426	95% Jackknife UCL	0.14
		95% Standard Bootstrap UCL	0.13
Anderson-Darling Test Statistic	4.69	95% Bootstrap-t UCL	12.24
Anderson-Darling 5% Critical Value	0.908	95% Hall's Bootstrap UCL	7.38
Kolmogorov-Smirnov Test Statistic	0.426	95% Percentile Bootstrap UCL	0.15
Kolmogorov-Smirnov 5% Critical Value	0.222	95% BCA Bootstrap UCL	0.21
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.28
		97.5% Chebyshev(Mean, Sd) UCL	0.38
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.57
95% Approximate Gamma UCL	0.199		
95% Adjusted Gamma UCL	0.226		
CO. / O. A. A. JUCKOW CHAIRING COL	<b>0.220</b>		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.57
esult or 1/2 DL (cobalt)			
	General S	Statistics	
Number of Valid Samples	36	Number of Unique Samples	36
Raw Statistics		Log-transformed Statistics	
Minimum	2.81	Minimum of Log Data	1.03
Maximum	10.3	Maximum of Log Data	2.33
Mean	6.318	Mean of log Data	1.80
Median	6.115	SD of log Data	0.3
SD	1.743		***************************************
Coefficient of Variation	0.276		
Skewness	0.102		
	Relevant UC		***************************************
Normal Distribution Test	0.000	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.982	Shapiro Wilk Test Statistic	0.95
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution	en vandunus biningsbri	Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	6.808	95% H-UCL	6.94
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	7.73
95% Adjusted-CLT UCL	6.801	97.5% Chebyshev (MVUE) UCL	8.34
95% Modified-t UCL	6.809	99% Chebyshev (MVUE) UCL	9.53
Gamma Distribution Test		Data Distribution	a fa fa fariga a glada da Milja la da
k star (bias corrected)	11.41	Data appear Normal at 5% Significance Level	·
Theta Star	0.553		
nu star	821.8	and and an area of the superior of the superio	
Approximate Chi Square Value (.05)	756.3	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0428		6.79

100225 to be described to the Company of Street, and the Company of Street,	4		
Adjusted Chi Square Value	753.4	95% Jackknife UCL	6.808
		95% Standard Bootstrap UCL	6.782
Anderson-Darling Test Statistic	0.303	95% Bootstrap-t UCL	6.811
Anderson-Darling 5% Critical Value	0.748	95% Hall's Bootstrap UCL	6.819
Kolmogorov-Smirnov Test Statistic	0.0941		6.799
Kolmogorov-Smirnov 5% Critical Value	0.147	95% BCA Bootstrap UCL	6.809
Data appear Gamma Distributed at 5% Significance	_evel	95% Chebyshev(Mean, Sd) UCL	7.584
		97.5% Chebyshev(Mean, Sd) UCL	8.132
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	9.208
95% Approximate Gamma UCL	6.865		
95% Adjusted Gamma UCL	6.891		
Potential UCL to Use		Use 95% Student's-t UCL	6.808
Result or 1/2 DL (copper)	General S	New tast as	
Number of Valid Samples	General 36	Number of Unique Samples	34
Raw Statistics		Log-transformed Statistics	
Minimum	4.59	Minimum of Log Data	1.524
Maximum	200	Maximum of Log Data	5.298
Mean	18.7	Mean of log Data	2.553
Median	10.05	SD of log Data	0.689
SD	31.9		
Coefficient of Variation	1.705		
Skewness	5.536		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.347	Shapiro Wilk Test Statistic	0.861
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
- January Control of the Control of	<u></u>		
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	27.68	95% H-UCL	20.73
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	24.92
95% Adjusted-CLT UCL	32.69	97.5% Chebyshev (MVUE) UCL	28.71
95% Modified-t UCL	28.5	99% Chebyshev (MVUE) UCL	36.16
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.37	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	13.65		. B P L L L L L L L
nu star	98.64		management of the state of all prophetics.
Approximate Chi Square Value (.05)	76.73	Nonparametric Statistics	
Adjusted Level of Significance	0.0428		27.45
Adjusted Chi Square Value	75.85	95% Jackknife UCL	27.68
		95% Standard Bootstrap UCL	27.43
Anderson-Darling Test Statistic	2.951	95% Bootstrap-t UCL	50.7
Anderson-Darling 5% Critical Value	0.767	95% Hall's Bootstrap UCL	60.07
Kolmogorov-Smirnov Test Statistic	0.204	95% Percentile Bootstrap UCL	28.98

Kolmogorov-Smirnov 5% Critical Value	0.15	95% BCA Bootstrap UCL	36.21
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	41.87
		97.5% Chebyshev(Mean, Sd) UCL	51.9
Assuming Gamma Distribution	Acceptable of the second of th	99% Chebyshev(Mean, Sd) UCL	71.6
95% Approximate Gamma UCL	24.04		
95% Adjusted Gamma UCL	24.32		
	<u> </u>		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	41.87
esult or 1/2 DL (cyclohexane)			
	General	Statistics	
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
	4.8100E-4	Minimum of Log Data	-7.64
Maximum	<u> </u>		-3.669
Mean	ļ		-6.457
Median	6.3000E-4	SD of log Data	1.497
SD	0.0096		
Coefficient of Variation	1.696		
Skewness	1.55		
Normal Distribution Test Shapiro Wilk Test Statistic	0.553	CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	0,705
Shapiro Wilk Critical Value	0.553	Shapiro Wilk Critical Value	0.703
Data not Normal at 5% Significance Level	0.301	Data not Lognormal at 5% Significance Level	0.30
Data for Northal at 0% digital and better	***************************************	Data not Loginomia at 0 % Oigninearies Loren	
Assuming Normal Distribution	Empero 13m. anayawasiv	Assuming Lognormal Distribution	##************************************
95% Student's-t UCL	0.0094		0.016
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	0.012
95% Adjusted-CLT UCL	0.0101	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0096	99% Chebyshev (MVUE) UCL	0.02
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.452	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0125		
nu star	17.18		in recommendation of the
Approximate Chi Square Value (.05)	8.804	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.00
Adjusted Chi Square Value	8.282	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	3.232	95% Bootstrap-t UCL	0.01
Anderson-Darling 5% Critical Value	0.804	95% Hall's Bootstrap UCL	0.008
Kolmogorov-Smirnov Test Statistic	0.355	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.21	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.01
	1	97.5% Chebyshev(Mean, Sd) UCL	0.019
Assuming Gamma Distribution	T	99% Chebyshev(Mean, Sd) UCL	0.02
95% Approximate Gamma UCL	0.0111		

95% Adjusted Gamma UCL	0.0118		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.02
Recommended UC	L exceeds the	e maximum observation	
	***************************************		
sult or 1/2 DL (dibenz(a,h)anthracene)			
	General Stat	istics	y
Number of Valid Samples	36	Number of Unique Samples	26
Raw Statistics		Log-transformed Statistics	
Minimum	0.0034	Minimum of Log Data	-5.674
Maximum	0.404	Maximum of Log Data	-0.906
Mean	0.0384	Mean of log Data	-4.616
Median	0.0054	SD of log Data	1.39
SD	0.0833		**********************
Coefficient of Variation	2.166		
Skewness	3.088		
Re	elevant UCL S	tatistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	anny nya statu atay
Shapiro Wilk Test Statistic	0.49	Shapiro Wilk Test Statistic	0.64
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	i bida erintum kartat gama- erina.
95% Student's-t UCL	0.0619	95% H-UCL	0.05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.05
95% Adjusted-CLT UCL	0.0689	97.5% Chebyshev (MVUE) UCL	0.07
95% Modified-t UCL	0.0631	99% Chebyshev (MVUE) UCL	0.09
Gamma Distribution Test	Additional of the second of th	Data Distribution	of the second section of the second section of
k star (bias corrected)	0.451	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0852		
nu star	32.49		( <del>V</del> -1944)***********************************
Approximate Chi Square Value (.05)	20.46	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0428	95% CLT UCL	0.06
Adjusted Chi Square Value	20.02	95% Jackknife UCL	0.06
		95% Standard Bootstrap UCL	0.06
Anderson-Darling Test Statistic	7.096	95% Bootstrap-t UCL	0.08
Anderson-Darling 5% Critical Value	0.819	95% Hall's Bootstrap UCL	0.07
Kolmogorov-Smirnov Test Statistic	0.456	95% Percentile Bootstrap UCL	0.06
Kolmogorov-Smirnov 5% Critical Value	0.156	95% BCA Bootstrap UCL	0.07
Data not Gamma Distributed at 5% Significance Leve	əl	95% Chebyshev(Mean, Sd) UCL	0.09
		97.5% Chebyshev(Mean, Sd) UCL	0.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.17
95% Approximate Gamma UCL	0.0611		
95% Adjusted Gamma UCL	0.0624		***************************************

ılt or 1/2 DL (dibenzofuran)	lakkalaria itoli palionilo rokalikiloriyina oʻti P		<b>************</b>
	General S	tatistics	numer of the same
Number of Valid Samples	36	Number of Unique Samples	27
Raw Statistics	No. 4 may 10050076 17500 300 1700 300 300 777 - 81. 17500 5 177	Log-transformed Statistics	
Minimum	0.0030	Minimum of Log Data	-5.799
Maximum	0.0862	Maximum of Log Data	-2.451
Mean	0.0099	Mean of log Data	-4.945
Median	0.0075	SD of log Data	0.66
SD	0.0145		**************************************
Coefficient of Variation	1.457		
Skewness	4.686		
R	televant UCL	_ Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.375	Shapiro Wilk Test Statistic	0.73
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.014	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0159	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0143	99% Chebyshev (MVUE) UCL	0.01
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.523	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0065		
nu star	109.7		<b></b>
Approximate Chi Square Value (.05)	86.51	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.01
Adjusted Chi Square Value	85.57	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	5.17	95% Bootstrap-t UCL	0.03
Anderson-Darling 5% Critical Value	0.764	95% Hall's Bootstrap UCL	0.03
Kolmogorov-Smirnov Test Statistic	0.389	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.149	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Lev	⁄el	95% Chebyshev(Mean, Sd) UCL	0.02
		97.5% Chebyshev(Mean, Sd) UCL	0.02
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.03
95% Approximate Gamma UCL	0.0126		
95% Adjusted Gamma UCL	0.0128		annick make dakteriowe
Potential UCL to Use	***************************************	Use 95% Chebyshev (Mean, Sd) UCL	0.02
lt or 1/2 DL (diethyl phthalate)			
	General St	tatistics	***************************************
Number of Valid Samples	36	Number of Unique Samples	29

	- 100		garate.
Raw Statistics		Log-transformed Statistics	
Minimum	0.0037	Minimum of Log Data	-5.578
Maximum	0.0498	Maximum of Log Data	-3
Mean	0.0097	Mean of log Data	-4.752
Median	0.0092	SD of log Data	0.448
SD	0.0072		
Coefficient of Variation	0.743		ent and the state of the state
Skewness	5.035		
	Relevant UC	L Statistics	nanno paratra (seconda para
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.413	Shapiro Wilk Test Statistic	0.712
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level	0.000	Data not Lognormal at 5% Significance Level	~
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0118	95% H-UCL	0.011
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0127
95% Adjusted-CLT UCL	0.0128	97.5% Chebyshev (MVUE) UCL	0.014
95% Modified-t UCL	0.012	99% Chebyshev (MVUE) UCL	0.0168
Gamma Distribution Test		Data Distribution	may array, may array a
k star (bias corrected)	3.92	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0024		fu(,nu)) ()+ mg-n+ma
nu star	282.3		
Approximate Chi Square Value (.05)	244.3	Nonparametric Statistics	v.+.+
Adjusted Level of Significance	0.0428	95% CLT UCL	0.0117
Adjusted Chi Square Value	242.7	95% Jackknife UCL	0.0118
		95% Standard Bootstrap UCL	0.0117
Anderson-Darling Test Statistic	4.813	95% Bootstrap-t UCL	0.0146
Anderson-Darling 5% Critical Value	0.752	95% Hall's Bootstrap UCL	0.0208
Kolmogorov-Smirnov Test Statistic	0.332	95% Percentile Bootstrap UCL	0.012
Kolmogorov-Smirnov 5% Critical Value	0.147	95% BCA Bootstrap UCL	0.0135
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	0.015
		97.5% Chebyshev(Mean, Sd) UCL	0.0173
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0218
95% Approximate Gamma UCL	0.0113	3370 Oliobyshev(Modif, 94) CCL	0.02 I
95% Adjusted Gamma UCL	0.0113		er-residents to 1984 ( leaves while the
Potential UCL to Use		Use 95% Student's-t UCL	0.0118
		or 95% Modified-t UCL	0.012
esult or 1/2 DL (di-n-butyl phthalate)			**************************************
	Industrial and Applications		
Number of Volid Correla	General S	Statistics  Number of Unique Samples	31
Number of Valid Samples	36	Number of Unique Samples	JI
Raw Statistics	-	Log-transformed Statistics	
Minimum	0.0039	Minimum of Log Data	-5.525
Maximum	0.0835	Maximum of Log Data	-2.483

			<i>1</i> 5
Mean	0.0155	Mean of log Data	-4.358
Median	0.0154	SD of log Data	0.624
SD	0.0128		
Coefficient of Variation	0.822		•
Skewness	4.448		
	Relevant UCI	L Statistics	for an index first rate Million in Index 2 and ray for a ve
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.486	Shapiro Wilk Test Statistic	0.744
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0191	95% H-UCL	0.019
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	0.023
95% Adjusted-CLT UCL	0.0207	97.5% Chebyshev (MVUE) UCL	0.026
95% Modified-t UCL	0.0194	99% Chebyshev (MVUE) UCL	0.032
Gamma Distribution Test		Data Diskilludian	
	0.504	Data Distribution	
k star (bias corrected) Theta Star	2.534 0.0061	Data do not follow a Discernable Distribution (0.05	) 
	182.4		
nu star Approximate Chi Square Value (.05)	152.2	Nonparametria Statistica	annatic for parts and a state of the parts of the
Adjusted Level of Significance	0.0428	Nonparametric Statistics  95% CLT UCL	0.019
Adjusted Level of Significance  Adjusted Chi Square Value	150.9	95% CL1 OCL	0.019
Adjusted Citi Squate Value	130.9	95% Standard Bootstrap UCL	0.018
Anderson-Darling Test Statistic	4.3	95% Solatidate Bootstrap CCL	0.012
Anderson-Darling 19st Statistic	0.755	95% Bootstrap UCL	0.022
Kolmogorov-Smirnov Test Statistic	0.755	95% Percentile Bootstrap UCL	0.030
Kolmogorov-Smirnov 7% Critical Value	0.308	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Le	l	95% Chebyshev(Mean, Sd) UCL	0.02
Data not Gamma Distributed at 5% Significance Le	vei	97.5% Chebyshev(Mean, Sd) UCL	0.028
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.026
95% Approximate Gamma UCL	0.0186	33 % Chebyshev(Weah, 3d) OCL	0.030
95% Adjusted Gamma UCL	0.0188		m.mengamangaranihan.a
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.024
esult or 1/2 DL (di-n-octyl phthalate)	d to the end from the district community to the end of		ete-committees respectively to
Ni	General S		20
Number of Valid Samples	36	Number of Unique Samples	30
Raw Statistics		Log-transformed Statistics	
Minimum	0.0041	Minimum of Log Data	-5.48
Maximum	0.123	Maximum of Log Data	-2.096
Mean	0.0115	Mean of log Data	-4.921
Median	0.0047	SD of log Data	0.76
SD	0.0205		
Coefficient of Variation	1.774		
		***************************************	

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	Relevant UCL S		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.376	Shapiro Wilk Test Statistic	0.70
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	and smarpholic melblesh
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	0.0173	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0202	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0178	99% Chebyshev (MVUE) UCL	0.02
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1,146	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0101	Data do not follow a Discernable Distribution (0.00)	
nu star	82.54		
Approximate Chi Square Value (.05)	62.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.0
Adjusted Chi Square Value	61.81	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	5.068	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.772	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.33	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.15	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0152		
95% Adjusted Gamma UCL	0.0154		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0
			Habi-pitti b "1144 Attaca
cult or 1/2 DL (ethylbenzene)			
	General Stat	istics	
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
	8.7000E-5	Minimum of Log Data	-9.35
Maximum	0.0050	Maximum of Log Data	-5.29
Mean	0.0016	Mean of log Data	-7.57
	1.1400E-4	SD of log Data	1.7
SD	0.0019		
Coefficient of Variation	1.168		
Skewness	0.735		mmusette Hilde
mureone americansupparturations supplied a policies of the Albertan supplied to the supplied t	Relevant UCL S		
Normal Distribution Test	0.750	Lognormal Distribution Test	0.7
Shapiro Wilk Test Statistic	0.759	Shapiro Wilk Test Statistic	U. /

0.901

Shapiro Wilk Critical Value

0.901

Shapiro Wilk Critical Value

Dete est No			
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0024	95% H-UCL	0.012
95% UCLs (Adjusted for Skewness)	0.002-1	95% Chebyshev (MVUE) UCL	0.006
95% Adjusted-CLT UCL	0.0024	97.5% Chebyshev (MVUE) UCL	0.008
95% Modified-t UCL	0.0024	99% Chebyshev (MVUE) UCL	0.008
95% Moullied-t OCL	0.0024	99% Chebystlev (MVOE) OCC	0.012
Gamma Distribution Test		Data Distribution	aghrupan ku unu aksadu eks Baku
k star (bias corrected)	0.484	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0034		
nu star	18.4		
Approximate Chi Square Value (.05)	9.677	Nonparametric Statistics	and an analysis of the state of
Adjusted Level of Significance	0.0369	95% CLT UCL	0.002
Adjusted Chi Square Value	9.127	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.002
Anderson-Darling Test Statistic	2.006	95% Bootstrap-t UCL	0.002
Anderson-Darling 5% Critical Value	0.8	95% Hall's Bootstrap UCL	0.002
Kolmogorov-Smirnov Test Statistic	0.336	95% Percentile Bootstrap UCL	0.002
Kolmogorov-Smirnov 5% Critical Value	0.209	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.002
Data not Gamina Distributed at 5% Significance Lev	/ei		0.003
		97.5% Chebyshev(Mean, Sd) UCL	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.006
95% Approximate Gamma UCL	0.0031		
95% Adjusted Gamma UCL	0.0033		
Potential UCL to Use Recommended UC	CL exceeds	Use 99% Chebyshev (Mean, Sd) UCL the maximum observation	0.006
esult or 1/2 DL (fluoranthene)			
esult or 1/2 DL (fluoranthene)	General S	tatistics	
esult or 1/2 DL (fluoranthene)  Number of Valid Samples	General S	tatistics  Number of Unique Samples	26
Number of Valid Samples		Number of Unique Samples	26
Number of Valid Samples Raw Statistics	36	Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples  Raw Statistics  Minimum	0.0033	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-5.69
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0033 2.19	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.69 0.784
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0033 2.19 0.146	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.69 0.784 -4.243
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0033 2.19 0.146 0.0063	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.69 0.78 <sup>2</sup> -4.243
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0033 2.19 0.146 0.0063 0.469	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.69 0.78 <sup>2</sup> -4.243
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0033 2.19 0.146 0.0063 0.469 3.217	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.69 0.78 <sup>2</sup> -4.243
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0033 2.19 0.146 0.0063 0.469	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.69 0.784
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0033 2.19 0.146 0.0063 0.469 3.217	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.69 0.78 <sup>2</sup> -4.243
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0033 2.19 0.146 0.0063 0.469 3.217 3.949	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-5.69 0.78 <sup>2</sup> -4.243 1.75 <sup>2</sup>
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0033 2.19 0.146 0.0063 0.469 3.217 3.949	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.69 0.78 <sup>4</sup> -4.243 1.75 <sup>2</sup>
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test	0.0033 2.19 0.146 0.0063 0.469 3.217 3.949	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-5.69 0.784 -4.243 1.752
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0033 2.19 0.146 0.0063 0.469 3.217 3.949 elevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.69 0.784 -4.243
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0033 2.19 0.146 0.0063 0.469 3.217 3.949 elevant UCI	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-5.69 0.784 -4.243 1.752

The second secon		the competence of the competen	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.164
95% Adjusted-CLT UCL	0.329	97.5% Chebyshev (MVUE) UCL	0.209
95% Modified-t UCL	0.286	99% Chebyshev (MVUE) UCL	0.296
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.292	Data do not follow a Discernable Distribution (0.05)	)
Theta Star	0.499		STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,
nu star	21		
Approximate Chi Square Value (.05)	11.59	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.274
Adjusted Chi Square Value	11.27	95% Jackknife UCL	0.27
		95% Standard Bootstrap UCL	0.27
Anderson-Darling Test Statistic	6.927	95% Bootstrap-t UCL	0.91
Anderson-Darling 5% Critical Value	0.858	95% Hall's Bootstrap UCL	0.85
Kolmogorov-Smirnov Test Statistic	0.416	95% Percentile Bootstrap UCL	0.28
Kolmogorov-Smirnov 5% Critical Value	0.159	95% BCA Bootstrap UCL	0.35
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.48
	4*************************************	97.5% Chebyshev(Mean, Sd) UCL	0.63
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.92
95% Approximate Gamma UCL	0.264		, 1 . ,
95% Adjusted Gamma UCL	0.271		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.92
It or 1/2 DL (fluorene)			
	General Sta		25
It or 1/2 DL (fluorene)  Number of Valid Samples	General Sta	atistics  Number of Unique Samples	25
			25
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	36	Number of Unique Samples  Log-transformed Statistics	-5.674
Number of Valid Samples  Raw Statistics  Minimum	0.0034	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-5.674 -1.959
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0034 0.141	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.674 -1.959 -5.042
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0034 0.141 0.0112	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.674 -1.959 -5.042
Raw Statistics  Minimum  Maximum  Mean  Median	0.0034 0.141 0.0112 0.0053	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.674 -1.959 -5.042
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0034 0.141 0.0112 0.0053 0.0235	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	25 -5.674 -1.959 -5.042 0.774
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0034 0.141 0.0112 0.0053 0.0235 2.098	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.674 -1.959 -5.042
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.674 -1.959 -5.042
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics	-5.674 -1.959 -5.042 0.774
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	-5.674 -1.959 -5.042 0.77
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.674 -1.959 -5.042 0.77
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-5.674 -1.959 -5.042 0.77
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169 Relevant UCL 0.329 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-5.674 -1.959 -5.042 0.77- 0.62- 0.93
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-5.674 -1.959 -5.042 0.77 0.62 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169 Relevant UCL 0.329 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.674 -1.959 -5.042 0.774 0.623 0.933
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169 Relevant UCL 0.329 0.935 0.0178	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL	-5.674 -1.959 -5.042 0.77- 0.62: 0.93: 0.01- 0.01-
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0034 0.141 0.0112 0.0053 0.0235 2.098 5.169 Relevant UCL 0.329 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.674 -1.959 -5.042 0.774 

k star (bias corrected)	0.978	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0114		personal controlling Controlling (Personal Personal Perso
nu star	70.43		engargangang yaligi ayankana kanabababa
Approximate Chi Square Value (.05)	52.11	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.0176
Adjusted Chi Square Value	51.39	95% Jackknife UCL	0.0178
		95% Standard Bootstrap UCL	0.0176
Anderson-Darling Test Statistic	7.344	95% Bootstrap-t UCL	0.035
Anderson-Darling 5% Critical Value	0.775	95% Hall's Bootstrap UCL	0.0372
Kolmogorov-Smirnov Test Statistic	0.454	95% Percentile Bootstrap UCL	0.0181
Kolmogorov-Smirnov 5% Critical Value	0.151	95% BCA Bootstrap UCL	0.0227
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.0282
		97.5% Chebyshev(Mean, Sd) UCL	0.0356
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.050
95% Approximate Gamma UCL	0.0151		
95% Adjusted Gamma UCL	0.0153		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0282
Result or 1/2 DL (indeno(1,2,3-cd)pyrene)			
	General S	Statistics	
Number of Valid Samples	36	Number of Unique Samples	28
Raw Statistics		Log-transformed Statistics	
Minimum	0.007	Minimum of Log Data	-4.962
Maximum	1.51	Maximum of Log Data	0.412
Mean	0.113	Mean of log Data	-3.647
Median	0.0092	SD of log Data	1.563
SD	0.279		
Coefficient of Variation	2.469		
Skewness	4.199		
F	Relevant UC	CL Statistics	and the second s
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.427	Shapiro Wilk Test Statistic	0.762
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.192	95% H-UCL	0.201
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.204
95% Adjusted-CLT UCL	0.225	97.5% Chebyshev (MVUE) UCL	0.257
95% Modified-t UCL	0.197	99% Chebyshev (MVUE) UCL	0.361
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.423	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.268		
nu star	30.45		
Approximate Chi Square Value (.05)	18.84	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.19

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Adjusted Chi Square Value	18.43	95% Jackknife UCL	0.192
		95% Standard Bootstrap UCL	0.19
Anderson-Darling Test Statistic	4.43	95% Bootstrap-t UCL	0.396
Anderson-Darling 5% Critical Value	0.825	95% Hall's Bootstrap UCL	0.517
Kolmogorov-Smirnov Test Statistic	0.35	95% Percentile Bootstrap UCL	0.198
Kolmogorov-Smirnov 5% Critical Value	0.156	95% BCA Bootstrap UCL	0.243
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.316
		97.5% Chebyshev(Mean, Sd) UCL	0.404
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.577
95% Approximate Gamma UCL	0.183		an germaniye, makaralanda arawa mene
95% Adjusted Gamma UCL	0.187		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.577
Result or 1/2 DL (iron)	-thath		
	General S	Statistics	······································
Number of Valid Samples	36	Number of Unique Samples	32
Raw Statistics		Log-transformed Statistics	
Minimum	7120	Minimum of Log Data	8.871
Maximum	102000	Maximum of Log Data	11.53
Mean	17531	Mean of log Data	9.638
Median	15350	SD of log Data	0.436
SD	15039		
Coefficient of Variation	0.858		***************************************
Skewness	5.318		
THE RESIDENCE OF THE PROPERTY			and the second s
	Relevant UC	, «Поличнику гер, «пруст, », «поточников приня» поличного съточников поличностью в деста деста поличностью поличность	
Normal Distribution Test	\$	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.41	Shapiro Wilk Test Statistic	0.824
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	The same of the sa
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	21765	95% H-UCL	19358
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	22337
95% Adjusted-CLT UCL	24027	97.5% Chebyshev (MVUE) UCL	24726
95% Modified-t UCL	22136	99% Chebyshev (MVUE) UCL	29419
	<u></u>		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.588	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	4885		han and an area of the second to the second to the second
nu star	258.4		
Approximate Chi Square Value (.05)	222.1	Nonparametric Statistics	K1
Adjusted Level of Significance	0.0428		21653
Adjusted Chi Square Value	220.6	95% Jackknife UCL	21765
		95% Standard Bootstrap UCL	21576
Anderson-Darling Test Statistic	2.629	95% Bootstrap-t UCL	29376
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	38680
Kolmogorov-Smirnov Test Statistic	0.213	95% Percentile Bootstrap UCL	22237

	2		<u> 20</u> - 10
Kolmogorov-Smirnov 5% Critical Value	0.148	95% BCA Bootstrap UCL	24682
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	28456
		97.5% Chebyshev(Mean, Sd) UCL	33183
Assuming Gamma Distribution	I	99% Chebyshev(Mean, Sd) UCL	42470
95% Approximate Gamma UCL	20389		
95% Adjusted Gamma UCL	20529		
			***************************************
Potential UCL to Use	S	Use 95% Student's-t UCL	21765
		or 95% Modified-t UCL	22136
opult or 1/2 DL (load)			
esult or 1/2 DL (lead)			
Number of Valid Samples	General 3	Statistics  Number of Unique Samples	31
Trainier of Valid Camples	<b></b>	Namber of oringes campes	
Raw Statistics		Log-transformed Statistics	
Minimum	5.88	Minimum of Log Data	1.7
Maximum	471	Maximum of Log Data	6.1
Mean	37.8	Mean of log Data	2.9
Median	15.2	SD of log Data	0.9
SD	80.99		
Coefficient of Variation	2.143		
Skewness	4.731		
F	Relevant UC	CL Statistics	
Normal Distribution Test	MARKE IN CASE OF PROPERTY OF P	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.388	Shapiro Wilk Test Statistic	0.7
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.9
Data not Normal at 5% Significance Level	**************************************	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	······································	Assuming Lognormal Distribution	Assesses 10 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -
95% Student's-t UCL	60.6	95% H-UCL	41.6
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	50.4
95% Adjusted-CLT UCL	71.37	97.5% Chebyshev (MVUE) UCL	59.9
95% Modified-t UCL	62.38	99% Chebyshev (MVUE) UCL	78.5
Gamma Distribution Test	affard afracerosaltshroopbade a	Data Distribution	
k star (bias corrected)	0.79	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	47.83		
nu star	56.89		pr\$
Approximate Chi Square Value (.05)	40.55	Nonparametric Statistics	
Adjusted Level of Significance	0.0428		60
Adjusted Chi Square Value	39.93	95% Jackknife UCL	60.6
		95% Standard Bootstrap UCL	60.0
Anderson-Darling Test Statistic	5.207	95% Bootstrap-t UCL	105.3
Anderson-Darling 5% Critical Value	0.784	95% Hall's Bootstrap UCL	130.3
Kolmogorov-Smirnov Test Statistic	0.389	95% Percentile Bootstrap UCL	61.6
Kolmogorov-Smirnov 5% Critical Value	0.152	95% BCA Bootstrap UCL	78.4
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	96.6
		97.5% Chebyshev(Mean, Sd) UCL	122.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	172.1

050/ A	F0.00		+
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	53.02 53.86		
95% Aujusted Gamma OCL	33.60		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	96.63
lesult or 1/2 DL (lithium)			
Number of Valid Samples	General Sta	Number of Unique Samples	33
	1		
Raw Statistics	***************************************	Log-transformed Statistics	***************************************
Minimum	2.59	Minimum of Log Data	0.952
Maximum	32.2	Maximum of Log Data	3.472
Mean	18.84	Mean of log Data	2.869
Median	18.55	SD of log Data	0.424
SD	5.952		
Coefficient of Variation	0.316		
Skewness	0.0191		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Relevant UCL		
Normal Distribution Test		Lognormal Distribution Test	0.70
Shapiro Wilk Test Statistic	0.97	Shapiro Wilk Test Statistic	0.78
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	20.51	95% H-UCL	22.03
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	25.35
95% Adjusted-CLT UCL	20.47	97.5% Chebyshev (MVUE) UCL	27.99
95% Modified-t UCL	20.51	99% Chebyshev (MVUE) UCL	33.19
			ga
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	7.068	Data appear Normal at 5% Significance Level	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Theta Star	2.665		
nu star	508.9		Marie 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Approximate Chi Square Value (.05)	457.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	20.47
Adjusted Chi Square Value	455.4	95% Jackknife UCL	20.51
Audien Berling Ten Out to	0.700	95% Standard Bootstrap UCL	20.44
Anderson-Darling Test Statistic	0.738	95% Bootstrap-t UCL	20.48
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL	20.47
Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.121	95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	20.44
Data appear Gamma Distributed at 5% Significance L		95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	23.16
Daw appear Gamma Distributed at 3% Significance L	evei (	97.5% Chebyshev(Mean, Sd) UCL	25.03
		99% Chebyshev(Mean, Sd) UCL	28.71
Assuming Gamma Dietribution	<u> </u>		20.71
Assuming Gamma Distribution	20.95		
95% Approximate Gamma UCL	20.95		**************************************
_	20.95		

	General St	atistics	. sales framarico y creato de
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
Minimum	1.6050E-4	Minimum of Log Data	-8.73
Maximum	0.0091	Maximum of Log Data	-4.69
Mean	0.0020	Mean of log Data	-7.55
Median	2.0500E-4	SD of log Data	1.6
SD	0.0034		UHIN - (MI-101M-10)
Coefficient of Variation	1.668		
Skewness	1.515		
	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	(marayamana mara
Shapiro Wilk Test Statistic	0.573	Shapiro Wilk Test Statistic	0.6
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.9
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	4-1-1-21-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0034	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)	0.0034	95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0036	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0035	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	***************************************
Minute vision in the commendation of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of	0.428	Data do not follow a Discernable Distribution (0.05)	
k star (bias corrected) Theta Star	0.428	Data do not follow a Discernable Distribution (0.00)	<i>,,,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
nu star	16.25		
Approximate Chi Square Value (.05)	8.141	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.0
Adjusted Chi Square Value	7.642	95% Jackknife UCL	0.0
Adjusted Offi Oquare value	7.042	95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	3.262	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.81	. 95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.411	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.211	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	<u>.</u>	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0041	,, . , ,	
95% Adjusted Gamma UCL	0.0044		
		Use 99% Chebyshev (Mean, Sd) UCL	0.0
Potential UCL to Use			J.0

General Statistics

	00		200
Number of Valid Samples	36	Number of Unique Samples	36
Raw Statistics		Log-transformed Statistics	
Minimum	82.3	Minimum of Log Data	4.41
Maximum	1210	Maximum of Log Data	7.09
Mean	347	Mean of log Data	5.70
Median	289.5	SD of log Data	0.54
SD	204.1		
Coefficient of Variation	0.588		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Skewness	2.242		
	<u> </u>		***************************************
F	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.816	Shapiro Wilk Test Statistic	0.96
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	404.5	95% H-UCL	417.2
95% UCLs (Adjusted for Skewness)	.01.0	95% Chebyshev (MVUE) UCL	491.6
95% Adjusted-CLT UCL	416.6	97.5% Chebyshev (MVUE) UCL	553.9
95% Modified-t UCL	406.6	99% Chebyshev (MVUE) UCL	676.4
			**************************************
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.417	Data appear Gamma Distributed at 5% Significance L	.evel
Theta Star	101.6		4. M. L
nu star	246		***************************************
Approximate Chi Square Value (.05)	210.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	403
Adjusted Chi Square Value	209.2	95% Jackknife UCL	404.5
		95% Standard Bootstrap UCL	401.3
Anderson-Darling Test Statistic	0.549	95% Bootstrap-t UCL	424.9
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	467
Kolmogorov-Smirnov Test Statistic	0.11	95% Percentile Bootstrap UCL	405.4
Kolmogorov-Smirnov 5% Critical Value	0.148	95% BCA Bootstrap UCL	417.9
Data appear Gamma Distributed at 5% Significance L	_evel	95% Chebyshev(Mean, Sd) UCL	495.3
		97.5% Chebyshev(Mean, Sd) UCL	559.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	685.4
95% Approximate Gamma UCL	405.2		
95% Adjusted Gamma UCL	408.1		***************************************
Potential UCL to Use		Use 95% Approximate Gamma UCL	405.2
sult or 1/2 DL (mercury)			
Saltor 112 DE (IIIGICULY)			
Number 2011	General S		00
Number of Valid Samples	36	Number of Unique Samples	23
Raw Statistics		Log-transformed Statistics	
Minimum	0.0011	Minimum of Log Data	-6.768
· · · · · · · · · · · · · · · · · · ·		Maximum of Log Data	-2.749

Mean	0.0094	Mean of log Data	-5.346
Median	0.0074	SD of log Data	1.23
SD	0.0124		
Coefficient of Variation	1.306		
Skewness	2.923		
	Relevant UCI	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.667	Shapiro Wilk Test Statistic	0.846
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	( / of r ight
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.013	95% H-UCL	0.0177
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0205
95% Adjusted-CLT UCL	0.0139	97.5% Chebyshev (MVUE) UCL	0.025
95% Modified-t UCL	0.0131	99% Chebyshev (MVUE) UCL	0.0342
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.803	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0118		
nu star	57.82		
Approximate Chi Square Value (.05)	41.34	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0428	95% CLT UCL	0.0129
Adjusted Chi Square Value	40.7	95% Jackknife UCL	0.013
		95% Standard Bootstrap UCL	0.0128
Anderson-Darling Test Statistic	1.891	95% Bootstrap-t UCL	0.0153
Anderson-Darling 5% Critical Value	0.783	95% Hall's Bootstrap UCL	0.028
Kolmogorov-Smirnov Test Statistic	0.247	95% Percentile Bootstrap UCL	0.0132
Kolmogorov-Smirnov 5% Critical Value	0.152	95% BCA Bootstrap UCL	0.014
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.018
	***************************************	97.5% Chebyshev(Mean, Sd) UCL	0.022
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.03
95% Approximate Gamma UCL	0.0133		**************************************
95% Adjusted Gamma UCL	0.0135		and the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of th
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.03
Result or 1/2 DL (methylcyclohexane)			41
	General S	tatistics	
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
Minimum	1.4950E-4	Minimum of Log Data	-8.808
Maximum	0.0085	Maximum of Log Data	-4.762
Mean	0.0024	Mean of log Data	-7.039
Median	0.0015	SD of log Data	1.607
SD	0.0030		recent constructed (construction)
Coefficient of Variation	1.259		
Skewness	1.227		

F	Relevant UCL S	Statistics	
Normal Distribution Test	CICVAIN OOL (	Lognormal Distribution Test	\$400.00 market 410 mar 1100
Shapiro Wilk Test Statistic	0.726	Shapiro Wilk Test Statistic	0.81
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0036	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0038	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0037	99% Chebyshev (MVÜE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.541	Data do not follow a Discernable Distribution (0.05)	\ \
Theta Star	0.0045	Data do not follow a Discornable Distribution (6:50)	
nu star	20.57		
Approximate Chi Square Value (.05)	11.27	Nonparametric Statistics	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Adjusted Level of Significance	0.0369	95% CLT UCL	0.0
Adjusted Chi Square Value	10.67	95% Jackknife UCL	0.0
Adjactor on oquale value	10.07	95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	1.396	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.793	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.793	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.208	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Lev	ì	95% Chebyshev(Mean, Sd) UCL	0.0
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	- CI	97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0044	3070 Onebyshov(Incell), 647 00E	
95% Adjusted Gamma UCL	0.0047		ngetitere en en en en en en en
			Majoristan property facility
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0
Recommended UC	CL exceeds the	e maximum observation	
			****************************
uit or 1/2 DL (molybdenum)			
	General Stat	istics	
Number of Valid Samples	36	Number of Unique Samples	28
Raw Statistics		Log-transformed Statistics	
Minimum	0.037	Minimum of Log Data	-3.29
Maximum	10.7	Maximum of Log Data	2.3
Mean	0.586	Mean of log Data	-1.9
Median	0.115	SD of log Data	1.4
SD	1.788		
Coefficient of Variation	3.054		
Skewness	5.477		
	elevant UCL S		
Normal Distribution Test	0.321	Lognormal Distribution Test	

Shapiro Wilk Test Statistic

0.321

0.86

Shapiro Wilk Test Statistic

Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level	\$ C	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Annumina Lagragued Distribution	
	4 000	Assuming Lognormal Distribution	0.051
95% Student's-t UCL	1.089	95% H-UCL	0.851
95% UCLs (Adjusted for Skewness)	4 007	95% Chebyshev (MVUE) UCL	0.917
95% Adjusted-CLT UCL 95% Modified-t UCL	1.367	97.5% Chebyshev (MVUE) UCL	1.144
95% Modified-t UCL	1.135	99% Chebyshev (MVUE) UCL	1.588
Gamma Distribution Test		Data Distribution	The the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
k star (bias corrected)	0.445	Data do not follow a Discernable Distribution (0.05	)
Theta Star	1.316		
nu star	32.04		**************************************
Approximate Chi Square Value (.05)	20.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	1.076
Adjusted Chi Square Value	19.67	95% Jackknife UCL	1.089
, ajasta Oni Oquale Value	10.07	95% Standard Bootstrap UCL	1.00
Anderson-Darling Test Statistic	3.324	95% Bootstrap-t UCL	2.845
Anderson-Darling 5% Critical Value	0.82	95% Hall's Bootstrap UCL	2.784
Kolmogorov-Smirnov Test Statistic	0.82	95% Percentile Bootstrap UCL	1.164
Kolmogorov-Smirnov 7est Statistic  Kolmogorov-Smirnov 5% Critical Value	0.217	95% BCA Bootstrap UCL	1.557
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	1.885
Data not danima Distributed at 5% Significance Lev	vei		2.447
A Distribution		97.5% Chebyshev(Mean, Sd) UCL	
Assuming Gamma Distribution	0.000	99% Chebyshev(Mean, Sd) UCL	3.551
95% Approximate Gamma UCL	0.933		
95% Adjusted Gamma UCL	0.954		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	3.551
esult or 1/2 DL (naphthalene)			
esult of 172 DL (naphinalene)			
Number of Valld Courses	General St		10
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
Minimum	1.5800E-4	Minimum of Log Data	-8.753
Maximum	0.251	Maximum of Log Data	-1.382
Mean	0.0236	Mean of log Data	-6.08
Median	0.0018	SD of log Data	2.079
SD	0.0644		
Coefficient of Variation	2.734		
Skewness	3.147	·	
R  Normal Distribution Test	elevant UCL	. Statistics  Lognormal Distribution Test	The Management of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o
Shapiro Wilk Test Statistic	0.407	Shapiro Wilk Test Statistic	0.90
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% Significance Level	0.301	Data appear Lognormal at 5% Significance Level	0,30
	anapa saasaa		***************************************
Assuming Normal Distribution	2	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0492	95% H-UCL	0.173

	F1		
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.052
95% Adjusted-CLT UCL	0.0593	97.5% Chebyshev (MVUE) UCL	0.069
95% Modified-t UCL	0.051	99% Chebyshev (MVUE) UCL	0.10
Gamma Distribution Test	Annual Property and the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of t	Data Distribution	
k star (bias corrected)	0.285	Data appear Lognormal at 5% Significance Level	
Theta Star	0.0827		
nu star	10.82		
Approximate Chi Square Value (.05)	4.458	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.04
Adjusted Chi Square Value	4.107	95% Jackknife UCL	0.04
		95% Standard Bootstrap UCL	0.04
Anderson-Darling Test Statistic	2.192	95% Bootstrap-t UCL	0.50
Anderson-Darling 5% Critical Value	0.844	95% Hall's Bootstrap UCL	0.25
Kolmogorov-Smirnov Test Statistic	0.332	95% Percentile Bootstrap UCL	0.05
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.06
Data not Gamma Distributed at 5% Significance Lev	į	95% Chebyshev(Mean, Sd) UCL	0.08
		97.5% Chebyshev(Mean, Sd) UCL	0.11
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.17
95% Approximate Gamma UCL	0.0571		•
95% Adjusted Gamma UCL	0.062		
30% Adjusted delima 000	0,002		
Potential UCL to Use		Use 99% Chebyshev (MVUE) UCL	0.10
ult or 1/2 DL (nickel)			
	General Sta		32
Number of Valid Samples	General Sta	atistics  Number of Unique Samples	32
			32
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	36	Number of Unique Samples  Log-transformed Statistics	2.27
Number of Valid Samples  Raw Statistics  Minimum	9.74	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	2.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum	9.74 51.7	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	2.27 3.94 2.79
Raw Statistics  Minimum  Maximum  Mean	9.74 51.7 17.17	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	2.27 3.94 2.79
Raw Statistics  Minimum  Maximum  Mean  Median	9.74 51.7 17.17	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	2.27 3.94 2.79
Raw Statistics  Minimum  Maximum  Mean  Median  SD	9.74 51.7 17.17 16 6.788	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	2.27 3.94 2.79
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	9.74 51.7 17.17 16 6.788 0.395 3.881	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	2.27 3.94 2.79
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	9.74 51.7 17.17 16 6.788 0.395	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics	2.27 3.94 2.79
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test	9.74 51.7 17.17 16 6.788 0.395 3.881	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	2.27 3.94 2.79 0.28
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	9.74 51.7 17.17 16 6.788 0.395 3.881	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	2.27 3.92 2.79 0.28
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test	9.74 51.7 17.17 16 6.788 0.395 3.881	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	2.27 3.92 2.79 0.28
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	9.74 51.7 17.17 16 6.788 0.395 3.881	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	2.27 3.92 2.79 0.28
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	9.74 51.7 17.17 16 6.788 0.395 3.881	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	2.27 3.92 2.79 0.28
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	9.74 51.7 17.17 16 6.788 0.395 3.881	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	2.27 3.9 <sup>2</sup> 2.79 0.28 0.88 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	9.74 51.7 17.17 16 6.788 0.395 3.881  Relevant UCL 0.637 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	2.27 3.92 2.79 0.28 0.88 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	9.74 51.7 17.17 16 6.788 0.395 3.881  Relevant UCL 0.637 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	32 2.27 3.94 2.79 0.28 0.88 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	9.74 51.7 17.17 16 6.788 0.395 3.881  Relevant UCL 0.637 0.935	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	2.27 3.94 2.79 0.28 0.88 0.93

125		
9.72	Data Follow Appr. Gamma Distribution at 5% Significance	e Level
1.767		
699.9		manganta and a majoran had be a manage as a radii dana
639.5	Nonparametric Statistics	
0.0428	95% CLT UCL	19.03
636.9	95% Jackknife UCL	19.08
	95% Standard Bootstrap UCL	18.99
1.205	· 95% Bootstrap-t UCL	20.64
0.748	95% Hall's Bootstrap UCL	27.37
0.146	95% Percentile Bootstrap UCL	19.15
0.147	95% BCA Bootstrap UCL	19.93
e Level	95% Chebyshev(Mean, Sd) UCL	22.1
	97.5% Chebyshev(Mean, Sd) UCL	24.24
ł	99% Chebyshev(Mean, Sd) UCL	28.43
18.79		
18.87		
	Line 059/ Approximate Commo LICI	18.79
	Use 95% Approximate Gamma UCL	18.79
TO THE COMMENT OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWN		***************************************
411-11-11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-		
36	Number of Unique Samples	30
hayanayan kana	Log-transformed Statistics	
0.0036	Minimum of Log Data	-5.614
1.34	Maximum of Log Data	0.293
0.0998	Mean of log Data	-4.194
0.007	SD of log Data	1.57
0.299		
2.991		
3.832		
Relevant UC		
	Lognormal Distribution Test	
0.354	Shapiro Wilk Test Statistic	0.743
0.935	Shapiro Wilk Critical Value	0.935
PERSONAL PROPERTY OF THE PROPERTY OF THE	Data not Lognormal at 5% Significance Level	
arrangan quangger quan hà e na pri an me en pen quinq que q	Assuming Lognormal Distribution	
0.184	95% H-UCL	0.119
£	95% Chebyshev (MVUE) UCL	0.12
0.216	97.5% Chebyshev (MVUE) UCL	0.151
0.189	99% Chebyshev (MVUE) UCL	0.212
	Data Distribution	
0.344		)
0.29		
24.76		
	Nonparametric Statistics	
[	_	0.182
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	1.767 699.9 639.5 0.0428 636.9 1.205 0.748 0.146 0.147 ce Level 18.79 18.87  General \$ 36  0.0036 1.34 0.0998 0.007 0.299 2.991 3.832  Relevant UC 0.354 0.935  0.184  0.216 0.189	1.767

	14.07	95% Jackknife UCL	0.184
Adjusted Chi Square Value	14.07		
Andrew Delice Tet Out of	0.070	95% Standard Bootstrap UCL	0.182 0.515
Anderson-Darling Test Statistic	6.276	95% Bootstrap-t UCL	0.538
Anderson-Darling 5% Critical Value	0.845	95% Hall's Bootstrap UCL	0.538
Kolmogorov-Smirnov Test Statistic	0.359	95% Percentile Bootstrap UCL	0.187
Kolmogorov-Smirnov 5% Critical Value	0.158	95% BCA Bootstrap UCL	0.216
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.317
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.411
95% Approximate Gamma UCL	0.171	99 % Chebyshev (Medit, 30) OCL	0.050
95% Adjusted Gamma UCL	0.171		
95% Adjusted Gamma OCL	, 0.176		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.595
Result or 1/2 DL (pyrene)			
Number of Valid Complex	General S		28
Number of Valid Samples	36	Number of Unique Samples	20
Raw Statistics		Log-transformed Statistics	
Minimum	0.0044	Minimum of Log Data	-5.424
Maximum	1.97	Maximum of Log Data	0.678
Mean	0.143	Mean of log Data	-4.094
Median	0.0067	SD of log Data	1.701
SD	0.444		ng litrate menteksik reseat keresaan (isk
Coefficient of Variation	3.103		and the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sectio
Skewness	3.879		
	Relevant UC	Statistics	
Normal Distribution Test	Tolevani oo	Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.344	Shapiro Wilk Test Statistic	0.703
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Test Statistic	0.935
Data not Normal at 5% Significance Level	0.535	Data not Lognormal at 5% Significance Level	0.300
Data not normal at 0% digitalities Level		Data for Edginimal at 370 Significance Level	e description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of the second description of t
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.268	95% H-UCL	0.184
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.172
95% Adjusted-CLT UCL	0.316	97.5% Chebyshev (MVUE) UCL	0.218
95% Modified-t UCL	0.276	99% Chebyshev (MVUE) UCL	0.309
Commo Distribution Tost		Data Distribution	and an extremely described to the contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contr
Gamma Distribution Test	0.24	Data Distribution	
k star (bias corrected)	0.31	Data do not follow a Discernable Distribution (0.05	''
Theta Star	0.461		
nu star	22.31 12.57	Nannaramatria Otaliatia	. <b></b>
Approximate Chi Square Value (.05)		Nonparametric Statistics	0.265
Adjusted Level of Significance	0.0428	95% CLT UCL	
Adjusted Chi Square Value	12.24	95% Jackknife UCL	0.268
		95% Standard Bootstrap UCL	0.261
Anderson-Darling Test Statistic	6.595	95% Bootstrap-t UCL	0.852
Anderson-Darling 5% Critical Value	0.853	95% Hall's Bootstrap UCL	0.824
Kolmogorov-Smirnov Test Statistic	0.37	95% Percentile Bootstrap UCL	0.268

Kolmogorov-Smirnov 5% Critical Value	0.159	95% BCA Bootstrap UCL	0.336
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.465
		97.5% Chebyshev(Mean, Sd) UCL	0.605
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.879
95% Approximate Gamma UCL	0.254		
95% Adjusted Gamma UCL	0.261		
			·/
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.879
esult or 1/2 DL (silver)			
	General S	tatistics	
Number of Valid Samples	36	Number of Unique Samples	20
Raw Statistics		Log-transformed Statistics	
Minimum	0.0135	Minimum of Log Data	-4.305
Maximum	0.41	Maximum of Log Data	-0.892
Mean	0.0473	Mean of log Data	-3.473
Median	0.0298	SD of log Data	0.718
SD	0.0773		
Coefficient of Variation	1.632		
Skewness	4.047		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.382	Shapiro Wilk Test Statistic	0.695
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0691	95% H-UCL	0.05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.06
95% Adjusted-CLT UCL	0.0778	97.5% Chebyshev (MVUE) UCL	0.07
95% Modified-t UCL	0.0705	99% Chebyshev (MVUE) UCL	0.09
Gamma Distribution Test	****	Data Distribution	
k star (bias corrected)	1,233	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0384		
nu star	88.81		
Approximate Chi Square Value (.05)	68.08	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.06
Adjusted Chi Square Value	67.26	95% Jackknife UCL	0.06
		95% Standard Bootstrap UCL	0.06
Anderson-Darling Test Statistic	6.224	95% Bootstrap-t UCL	0.15
Anderson-Darling 5% Critical Value	0.77	95% Hall's Bootstrap UCL	0.15
Kolmogorov-Smirnov Test Statistic	0.432	95% Percentile Bootstrap UCL	0.07
Kolmogorov-Smirnov 5% Critical Value	0.15	95% BCA Bootstrap UCL	0.08
Romogorov Chimnov 676 Childar Value			0.10
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.10
_	vel	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.108
_	vel		

95% Adjusted Gamma UCL	0.0625		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.103
esult or 1/2 DL (strontium)			
	General Statis	stics	
Number of Valid Samples	36	Number of Unique Samples	35
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	22.1	Minimum of Log Data	3.096
Maximum	96.2	Maximum of Log Data	4.560
Mean	56.15	Mean of log Data	3.95
Median	53	SD of log Data	0.41
SD	20.95		
Coefficient of Variation	0.373		***************************************
Skewness	0.15		***************************************
			assampaqsasMIN.styretsWis
	Relevant UCL Sta		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.954	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	her many fragment and many
Assuming Normal Distribution	W	Assuming Lognormal Distribution	Address grade any State St. Coldina or St. c
95% Student's-t UCL	62.05	95% H-UCL	64.44
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	73.96
95% Adjusted-CLT UCL	61.98	97.5% Chebyshev (MVUE) UCL	81.51
95% Modified-t UCL	62.06	99% Chebyshev (MVUE) UCL	96.36
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	6.163	Data Distribution  Data appear Normal at 5% Significance Level	***************************************
Theta Star	9.111	Data appear Normal at 0 to organization across	
nu star	443.7		
Approximate Chi Square Value (.05)	395.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	61.89
Adjusted Chi Square Value	393.8	95% Jackknife UCL	62.05
		95% Standard Bootstrap UCL	61.7
Anderson-Darling Test Statistic	0.492	95% Bootstrap-t UCL	62.12
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL	62.04
Kolmogorov-Smirnov Test Statistic	0.106	95% Percentile Bootstrap UCL	61.53
Kolmogorov-Smirnov 5% Critical Value	0.147	95% BCA Bootstrap UCL	61.5
Data appear Gamma Distributed at 5% Significance L	_evel	95% Chebyshev(Mean, Sd) UCL	71.37
		97.5% Chebyshev(Mean, Sd) UCL	77.95
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	90.89
95% Approximate Gamma UCL	62.93		
95% Adjusted Gamma UCL	63.26		
Potential LICI to Lice		Llas 05% Students t I/Cl	ຣາ ດເ
Potential UCL to Use		Use 95% Student's-t UCL	62.0

	General S	Statistics	
Number of Valid Samples	19	Number of Unique Samples	18
Raw Statistics	1	Log-transformed Statistics	
Minimum		Minimum of Log Data	-9.465
Maximum	0.223	Maximum of Log Data	-1.501
Mean	0.0127	Mean of log Data	-7.936 2.23
Median	1.0500E-4 0.0509	SD of log Data	2,23
Coefficient of Variation	4.004		
Skewness	4.351		
Skewiless	4.001		nocumeen-n-10-m-te
R	elevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.264	Shapiro Wilk Test Statistic	0.689
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	**************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.033	95% H-UCL	0.052
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0444	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0349	99% Chebyshev (MVUE) UCL	0.022
Gamma Distribution Test		Data Distribution	ala anda liferatura
k star (bias corrected)	0.208	Data do not follow a Discernable Distribution (0.05)	<u> </u>
Theta Star	0.0612		· · · · · · · · · · · · · · · · · · ·
nu star	7.9		***************************************
Approximate Chi Square Value (.05)	2.677	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0369	95% CLT UCL	0.03
Adjusted Chi Square Value	2.419	95% Jackknife UCL	0.033
		95% Standard Bootstrap UCL	0.03
Anderson-Darling Test Statistic	3.918	95% Bootstrap-t UCL	0.47
Anderson-Darling 5% Critical Value	0.885	95% Hall's Bootstrap UCL	0.346
Kolmogorov-Smirnov Test Statistic	0.388	95% Percentile Bootstrap UCL	0.036
Kolmogorov-Smirnov 5% Critical Value	0.22	95% BCA Bootstrap UCL	0.048
Data not Gamma Distributed at 5% Significance Lev	rel	95% Chebyshev(Mean, Sd) UCL	0.063
		97.5% Chebyshev(Mean, Sd) UCL	0.08
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.12
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0375 0.0416		- rindright forthe care the territory
93 % Adjusted Gamina OCL	0.0410		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.12
South on 1/2 DL (sin)			
esult or 1/2 DL (tin)	General S	Statistics	

			1
Raw Statistics		Log-transformed Statistics	4 000
Minimum	0.195	Minimum of Log Data	-1.635
Maximum	3.67	Maximum of Log Data	1.3
Mean	0.47	Mean of log Data	-1.072
Median	0.285	SD of log Data	0.642
SD	0.628		-11-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Coefficient of Variation	1.334		24.000.00.000.000.000.000.000.000.000.00
Skewness	4.232		31-146/00C/1801C/FE-3801C-180C/180C
F	Relevant UC	CL Statistics	ort page committee victories the gas spin backets
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.431	Shapiro Wilk Test Statistic	0.665
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	#14 company ( ) 100 ( ) 100 ( ) 100 ( ) 100 ( ) 100 ( ) 100 ( ) 100 ( ) 100 ( ) 100 ( ) 100 ( ) 100 ( ) 100 ( )	Assuming Lognormal Distribution	
95% Student's-t UCL	0.647	95% H-UCL	0.524
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.627
95% Adjusted-CLT UCL	0.721	97.5% Chebyshev (MVUE) UCL	0.718
95% Modified-t UCL	0.659	99% Chebyshev (MVUE) UCL	0.896
Gamma Distribution Test	majoran ( den e rese post hande constitue a constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue poster constitue pos	Data Distribution	
k star (bias corrected)	1.594	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.295		
nu star	114.8		
Approximate Chi Square Value (.05)	91.06	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	0.642
Adjusted Chi Square Value	90.1	95% Jackknife UCL	0.647
		95% Standard Bootstrap UCL	0.636
Anderson-Darling Test Statistic	6.272	95% Bootstrap-t UCL	0.88
Anderson-Darling 5% Critical Value	0.763	95% Hall's Bootstrap UCL	1.22
Kolmogorov-Smirnov Test Statistic	0.431	95% Percentile Bootstrap UCL	0.664
Kolmogorov-Smirnov 5% Critical Value	0.149	95% BCA Bootstrap UCL	0.747
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.926
	Not-2-10-10 wrest of 10 combines and 10	97.5% Chebyshev(Mean, Sd) UCL	1.124
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.51
95% Approximate Gamma UCL	0.593		
95% Adjusted Gamma UCL	0.599		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.926
Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.593	97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	1.
Sul OF 172 DE (III.A.III.II)	General S	Statistics	
Number of Valid Samples	36	Number of Unique Samples	33
Raw Statistics		Log-transformed Statistics	
Minimum	3.41	Minimum of Log Data	1.22
Maximum	57	Maximum of Log Data	4.04
Mean	20.83	Mean of log Data	2.85

A SERVICE PROPERTY OF THE PROP			
SD	12.9		
Coefficient of Variation	0.619		
Skewness	1.414		
	Relevant UCL	Statistics	
Normal Distribution Test	Televant OOL	Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.864	Shapiro Wilk Test Statistic	0.95
Shapiro Wilk Critical Value	0.935	Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	<b></b>
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	24.46	95% H-UCL	26.55
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	31.75
95% Adjusted-CLT UCL	24.9	97.5% Chebyshev (MVUE) UCL	36.33
95% Modified-t UCL	24.54	99% Chebyshev (MVUE) UCL	45.33
Gamma Distribution Test		Data Distribution	<b></b>
k star (bias corrected)	2.679	Data appear Gamma Distributed at 5% Significance Le	evel
Theta Star	7.774		
nu star	192.9		arnami etromistro-Hala
Approximate Chi Square Value (.05)	161.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	24.36
Adjusted Chi Square Value	160.5	95% Jackknife UCL	24.46
, rejustica cin equalic i are	100.0	95% Standard Bootstrap UCL	24.39
Anderson-Darling Test Statistic	0.489	95% Bootstrap-t UCL	25.42
Anderson-Darling 5% Critical Value	0.754	95% Hall's Bootstrap UCL	25.08
Kolmogorov-Smirnov Test Statistic	0.105	95% Percentile Bootstrap UCL	24.46
Kolmogorov-Smirnov 5% Critical Value	0.148	95% BCA Bootstrap UCL	24.77
Data appear Gamma Distributed at 5% Significance I		95% Chebyshev(Mean, Sd) UCL	30.19
		97.5% Chebyshev(Mean, Sd) UCL	34.25
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	42.21
95% Approximate Gamma UCL	24.83	oo /o Griebyshe (medii, eq.)	
95% Adjusted Gamma UCL	25.03		
Potential UCL to Use		Use 95% Approximate Gamma UCL	24.83
esult or 1/2 DL (toluene)			and the second states in the
	General St		
Number of Valid Samples	19	Number of Unique Samples	19
Raw Statistics		Log-transformed Statistics	
Minimum	2.3900E-4	Minimum of Log Data	-8.339
Maximum	0.0127	Maximum of Log Data	-4.366
Mean	0.0046	Mean of log Data	-6.263
Median	0.0036	SD of log Data	1.61
SD	0.0047		
Coefficient of Variation	1.03		
Skewness	0.722	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.807	Shapiro Wilk Test Statistic	0.82
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.90
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	***************************************	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0065	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0066	97.5% Chebyshev (MVUE) UCL	0.02
95% Modified-t UCL	0.0065	99% Chebyshev (MVUE) UCL	0.03
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	0.608	Data do not follow a Discernable Distribution (0.05)	****************
Theta Star	0.0076		
nu star	23.11		***************************************
Approximate Chi Square Value (.05)	13.18	Nonparametric Statistics	
Adjusted Level of Significance	0.0369	95% CLT UCL	0.00
Adjusted Chi Square Value	12.52	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	1.109	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.785	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.238	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.207	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Lev		95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0081	30% Shobyonov(moun, Gu) GGE	
95% Adjusted Gamma UCL	0.0085		***************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0
	CL exceeds	the maximum observation	U.U
It or 1/2 DL (vanadium)	General S	tatistics	
Number of Valid Samples	36	Number of Unique Samples	33
Raw Statistics		Log-transformed Statistics	der sakronsdag i kandig ræ
Minimum	7.85	Minimum of Log Data	2.06
Maximum	45.8	Maximum of Log Data	3.82
Mean	20.54	Mean of log Data	2.9
Mean i	19.55	SD of log Data	0.4
Median SD	8.387	1	
Median SD	8.387		***************************************
Median			
Median SD Coefficient of Variation Skewness	8.387 0.408	L Statistics	
Median SD Coefficient of Variation Skewness	8.387 0.408 0.649	L Statistics  Lognormal Distribution Test	
Median SD Coefficient of Variation Skewness R Normal Distribution Test	8.387 0.408 0.649	Lognormal Distribution Test	0.96
Median SD Coefficient of Variation Skewness	8.387 0.408 0.649 elevant UCI		0.90

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	22.9	95% H-UCL	23.75
95% UCLs (Adjusted for Skewness)	1	95% Chebyshev (MVUE) UCL	27.39
95% Adjusted-CLT UCL	23	97.5% Chebyshev (MVUE) UCL	30.3
95% Modified-t UCL	22.93	99% Chebyshev (MVUE) UCL	36.03
Gamma Distribution Test	***************************************	Data Distribution	
k star (bias corrected)	5.487	Data appear Normal at 5% Significance Level	yan ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
Theta Star	3.743		
nu star	395.1		
Approximate Chi Square Value (.05)	350	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	22.84
Adjusted Chi Square Value	348.1	95% Jackknife UCL	22.9
		95% Standard Bootstrap UCL	22.8
Anderson-Darling Test Statistic	0.319	95% Bootstrap-t UCL	23.04
Anderson-Darling 5% Critical Value	0.75	95% Hall's Bootstrap UCL	23.09
Kolmogorov-Smirnov Test Statistic	0.0966	95% Percentile Bootstrap UCL	22.82
Kolmogorov-Smirnov 5% Critical Value	0.147	95% BCA Bootstrap UCL	23.08
Data appear Gamma Distributed at 5% Significance I	Level	95% Chebyshev(Mean, Sd) UCL	26.63
		97.5% Chebyshev(Mean, Sd) UCL	29.27
Assuming Gamma Distribution	1	99% Chebyshev(Mean, Sd) UCL	34.45
95% Approximate Gamma UCL	23.19		
95% Adjusted Gamma UCL	23.31		
Potential UCL to Use		Use 95% Student's-t UCL	22.9
sult or 1/2 DL (xylene (total))	Gonoral St	Patietice	
	General SI		19
Number of Valid Samples	General St	Number of Unique Samples	
Number of Valid Samples Raw Statistics	19	Number of Unique Samples  Log-transformed Statistics	19
Number of Valid Samples  Raw Statistics  Minimum	2.3100E-4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	19
Raw Statistics Minimum Maximum	2.3100E-4 1.76	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-8.373 0.56
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	2.3100E-4 1.76 0.119	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-8.373 0.56 -5.435
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	2.3100E-4 1.76 0.119 0.0031	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-8.373 0.56 -5.435
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	2.3100E-4 1.76 0.119 0.0031 0.4	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-8.373 0.56 -5.435
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	2.3100E-4 1.76 0.119 0.0031	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-8.373 0.56 -5.435
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	2.3100E-4 1.76 0.119 0.0031 0.4	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-8.373 0.56 -5.435
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	2.3100E-4 1.76 0.119 0.0031 0.4 3.368	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.373 0.56 -5.435
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	2.3100E-4 1.76 0.119 0.0031 0.4 3.368 4.273	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-8.373 0.56 -5.435 2.87
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	2.3100E-4 1.76 0.119 0.0031 0.4 3.368 4.273	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	19 -8.373 0.56 -5.435 2.87
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	2.3100E-4 1.76 0.119 0.0031 0.4 3.368 4.273	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	19 -8.373 0.56 -5.435 2.87
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	2.3100E-4 1.76 0.119 0.0031 0.4 3.368 4.273	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-8.373 0.56 -5.435 2.87
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	2.3100E-4 1.76 0.119 0.0031 0.4 3.368 4.273  Relevant UCL 0.318 0.901	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-8.373 0.56 -5.435 2.87
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	2.3100E-4 1.76 0.119 0.0031 0.4 3.368 4.273	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-8.373 0.56 -5.435 2.87

			200
95% Modified-t UCL	0.293	99% Chebyshev (MVUE) UCL	1.099
Comera Diskilladian Task		Deter Distribution	
Gamma Distribution Test		Data Distribution  Data Follow Appr. Gamma Distribution at 5% Significanc	o i ovol
k star (bias corrected) Theta Star	0.22 0.54		
nu star	8.358		
Approximate Chi Square Value (.05)	2.944	Nonparametric Statistics	
Adjusted Level of Significance	0.0369		0.27
Adjusted Chi Square Value	2.67	95% Jackknife UCL	0.27
Aujusted On Oquale Value	2.07	95% Standard Bootstrap UCL	0.26
Anderson-Darling Test Statistic	1.648	95% Bootstrap -t UCL	1.51
Anderson-Darling 5% Critical Value	0.879	95% Hall's Bootstrap UCL	0.90
Kolmogorov-Smirnov Test Statistic	0.208	95% Percentile Bootstrap UCL	0.30
Kolmogorov-Smirnov 5% Critical Value	0.219	95% BCA Bootstrap UCL	0.40
Data follow Appr. Gamma Distribution at 5% Significance		95% Chebyshev(Mean, Sd) UCL	0.51
	~ LC+01	97.5% Chebyshev(Mean, Sd) UCL	0.69
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.03
95% Approximate Gamma UCL	0.337	33.73 3.133,3113 (main, 34) 30E	
95% Adjusted Gamma UCL	0.372		
	0.072		
Potential UCL to Use	***************************************	Use 95% Adjusted Gamma UCL	0.37
Result or 1/2 DL (zinc)	General S		
Result or 1/2 DL (zinc)  Number of Valid Samples	General S	Statistics  Number of Unique Samples	36
Number of Valid Samples		Number of Unique Samples	36
Number of Valid Samples Raw Statistics	36	Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples  Raw Statistics  Minimum	36 21.1	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	3.04
Number of Valid Samples  Raw Statistics  Minimum  Maximum	36 21.1 5640	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	3.04 8.63
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	21.1 5640 242.5	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	3.04 8.63 4.28
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	21.1 5640 242.5 49.05	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	3.04 8.63 4.28
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	21.1 5640 242.5 49.05 929.4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	3.04 8.63 4.28
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	21.1 5640 242.5 49.05 929.4 3.833	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	3.04 8.63 4.28
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation	21.1 5640 242.5 49.05 929.4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	3.04 8.63 4.28
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	21.1 5640 242.5 49.05 929.4 3.833 5.918	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	3.04 8.63 4.28
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	21.1 5640 242.5 49.05 929.4 3.833 5.918	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	3.04 8.63 4.28 1.03
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	3.04 8.63 4.28 1.03
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	21.1 5640 242.5 49.05 929.4 3.833 5.918	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	3.04 8.63 4.28 1.03
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	36 3.04 8.63 4.28 1.03
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	3.04 8.63 4.28 1.03
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	36  21.1  5640  242.5  49.05  929.4  3.833  5.918  Relevant UC  0.228  0.935	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	3.04 8.63 4.28 1.03 0.77 0.93
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	3.04 8.63 4.28 1.03 0.77 0.93
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	36  21.1  5640  242.5  49.05  929.4  3.833  5.918  Relevant UC  0.228  0.935	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	3.04 8.63 4.28 1.03 0.77 0.93 191.5 229.8
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC 0.228 0.935	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	3.04 8.63 4.28 1.03 0.77 0.93 191.5 229.8 276.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	36  21.1  5640  242.5  49.05  929.4  3.833  5.918  Relevant UC  0.228  0.935	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	3.04 8.63 4.28 1.03 0.77 0.93 191.5 229.8
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC 0.228 0.935	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	3.04 8.63 4.28 1.03 0.77 0.93 191.5 229.8 276.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	21.1 5640 242.5 49.05 929.4 3.833 5.918 Relevant UC 0.228 0.935	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	3.04 8.63 4.28 1.03 0.77 0.93 191.5 229.8 276.5 368.1

nu star	35.9		
Approximate Chi Square Value (.05)	23.19	Nonparametric Statistics	
Adjusted Level of Significance	0.0428	95% CLT UCL	497.3
Adjusted Chi Square Value	22.72	95% Jackknife UCL	504.2
		95% Standard Bootstrap UCL	499.1
. Anderson-Darling Test Statistic	6.288	95% Bootstrap-t UCL	2637
Anderson-Darling 5% Critical Value	0.81	95% Hall's Bootstrap UCL	1588
Kolmogorov-Smirnov Test Statistic	0.315	95% Percentile Bootstrap UCL	550.3
Kolmogorov-Smirnov 5% Critical Value	0.155	95% BCA Bootstrap UCL	832.6
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	917.7
		97.5% Chebyshev(Mean, Sd) UCL	1210
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1784
95% Approximate Gamma UCL	375.4		
95% Adjusted Gamma UCL	383.1		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1784

APPENDIX A-5

BACKGROUND SOIL

	General UCL Statistics t	for Full Da	ata Sets	
User Selected Options			•	
From File Full Precision	J:\1352 - Gulfco RI\risk\ OFF	eco\Table	es for Revisited SLERA\background soil table.wst	
Confidence Coefficient	95%			
Number of Bootstrap Operations				
Result or 1/2 SDL (antimony)				
General Statistics				
Number of Valid Samples		10	Number of Unique Samples	10
Raw Statistics		2 405	Log-transformed Statistics	0.070
Minimum Maximum			Minimum of Log Data Maximum of Log Data	-2.079 0.784
Mean			Mean of log Data	-0.711
Median			SD of log Data	1.345
SD Coefficient of Variation		0.878 0.921		
Skewness		0.921		
Relevant UCL Statistics			have a Lindschaffer Tark	
Normal Distribution Test Shapiro Wilk Test Statistic		0 775	Lognormal Distribution Test Shapiro Wilk Test Statistic	0.726
Shapiro Wilk Critical Value			Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significat	nce Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution 95% Student's-t UCL		1 /62	Assuming Lognormal Distribution 95% H-UCL	6.827
95% UCLs (Adjusted for Skew	ness)	1.402	95% Chebyshev (MVUE) UCL	3.117
95% Adjusted-CLT UCL	•		97.5% Chebyshev (MVUE) UCL	4.01
95% Modified-t UCL		1.464	99% Chebyshev (MVUE) UCL	5,765
Gamma Distribution Test			Data Distribution	
k star (bias corrected) Theta Star		0,685 1,39	Data do not follow a Discernable Distribution (0.05)	
nu star		13,71		
Approximate Chi Square Value (	.05)		Nonparametric Statistics	
Adjusted Level of Significance		0.0267		1.41
Adjusted Chi Square Value		5.527	95% Jackknife UCL 95% Standard Bootstrap UCL	1.462 1.381
Anderson-Darling Test Statistic		1.346	95% Bootstrap-t UCL	1.452
Anderson-Darling 5% Critical Va		0,752	95% Hall's Bootstrap UCL	1.306
Kolmogorov-Smirnov Test Statis			95% Percentile Bootstrap UCL	1.394
Kolmogorov-Smirnov 5% Critical Data not Gamma Distributed at 5		0.275	95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	1.416 2.163
Data not Gamma Distributed at 5	76 Significance Level		97.5% Chebyshev(Mean, Sd) UCL	2.687
Assuming Gamma Distribution			99% Chebyshev(Mean, Sd) UCL	3.715
95% Approximate Gamma UCI 95% Adjusted Gamma UCL	-	2,05 2,364		
-		2,504		
Potential UCL to Use Recommended UCL exceeds the	maximum observation		Use 99% Chebyshev (Mean, Sd) UCL	3.715
Result or 1/2 SDL (arsenic)				
General Statistics				
Number of Valid Samples		10	Number of Unique Samples	10
Raw Statistics			Log-transformed Statistics	
Minimum			Minimum of Log Data	-1.427
Maximum Mean			Maximum of Log Data Mean of log Data	1.775 0.985
Median			SD of log Data	0.947
SD		1.792		•
Coefficient of Variation Skewness		0.521 -0.35		
Relevant UCL Statistics				
Normal Distribution Test			Lognormal Distribution Test	
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value			Shapiro Wilk Critical Volume	0.749 0.842
Data appear Normal at 5% Signi	ficance Level	0.042	Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	0.042
Assuming Normal Distribution			Assuming Lognormal Distribution	
95% Student's-t UCL	\	4.477		10.79
95% UCLs (Adjusted for Skew) 95% Adjusted-CLT UCL	less)	4 303	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	9.349 11.68
95% Modified-t UCL			99% Chebyshev (MVUE) UCL	16.27
Gamma Distribution Test			Data Distribution	
k star (bias corrected)			Data appear Normal at 5% Significance Level	
Theta Star nu star		2.187 31.44		
nu stai		J 1.44		

Approximate Chi Square Value (.05)	19.63	Nonparametric Statistics	
Adjusted Level of Significance	0.0267	95% CLT UCL	4.37
Adjusted Chi Square Value	18.03	95% Jackknife UCL	4.477
		95% Standard Bootstrap UCL	4.299
Anderson-Darling Test Statistic	0.699		4.371
Anderson-Darling 5% Critical Value	0.735		4.292
Kolmogorov-Smirnov Test Statistic	0.293	•	4.299 4.27
Kolmogorov-Smirnov 5% Critical Value  Data follow Appr. Gamma Distribution at 5% Significa	0.27	•	4.27 5.908
Data follow Appl. Gattinia Distribution at 5% Significa	arice Level	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	6,976
· Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	9.075
95% Approximate Gamma UCL	5.507	,	
95% Adjusted Gamma UCL	5.997		
Potential UCL to Use		Use 95% Student's-t UCL	4.477
		2.0	
Result or 1/2 SDL (barium)			
General Statistics			
Number of Valid Samples	10	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	150	Minimum of Log Data	5.011
Maximum		Maximum of Log Data	7.03
Mean		Mean of log Data	5.617
Median	259	SD of log Data	0.571
SD	288.1		
Coefficient of Variation	0.865		
Skewness	2.844		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.59	Shapiro Wilk Test Statistic	0.83
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level	0.012	Data not Lognormal at 5% Significance Level	0.0 12
<del>-</del>		•	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	500.1	95% H-UCL	504
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	573.9
95% Adjusted-CLT UCL 95% Modified-t UCL		97.5% Chebyshev (MVUE) UCL	684.7
95% Modified-f OCL	513.7	99% Chebyshev (MVUE) UCL	902.2
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.005	Data Follow Appr. Gamma Distribution at 5% Signif	icance Level
Theta Star	166.1		
nu star	40.11		
Approximate Chi Square Value (.05)	26.6	Nonparametric Statistics	
A discount of the Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of Cincipal of	20.0		
Adjusted Level of Significance	0.0267	95% CLT UCL	482.9
Adjusted Level of Significance Adjusted Chi Square Value	0.0267	95% Jackknife UCL	500.1
Adjusted Chi Square Value	0.0267 24.7	95% Jackknife UCL 95% Standard Bootstrap UCL	500.1 476.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic	0.0267 24.7 1.01	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	500.1 476.3 877.8
Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value	0,0267 24.7 1.01 0,733	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	500.1 476.3 877.8 1100
Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic	0.0267 24.7 1.01 0.733 0.268	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	500.1 476.3 877.8 1100 505.4
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.0267 24.7 1.01 0.733 0.268 0.269	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	500.1 476.3 877.8 1100 505.4 601.4
Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic	0.0267 24.7 1.01 0.733 0.268 0.269	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2
Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value  Data follow Appr. Gamma Distribution at 5% Significa	0.0267 24.7 1.01 0.733 0.268 0.269	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2 902
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2
Adjusted Chi Square Value  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic  Kolmogorov-Smirnov 5% Critical Value  Data follow Appr. Gamma Distribution at 5% Significa	0.0267 24.7 1.01 0.733 0.268 0.269	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap+ UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2 902
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution 95% Approximate Gamma UCL	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap+ UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2 902
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significa Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significa Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene) General Statistics	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level 502.3 540.9	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level 502.3 540.9	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significa Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene) General Statistics	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level 502.3 540.9	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL USE 95% Approximate Gamma UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)  General Statistics Number of Valid Samples	0.0267 24.7 1.01 0.733 0.269 ance Level 502.3 540.9	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significa Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene) General Statistics Number of Valid Samples Raw Statistics Minimum Maximum	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level 502.3 540.9	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL Use 95% Approximate Gamma UCL  Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution at 5% Significal Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean	0.0267 24.7 1.01 0.733 0.269 ance Level 502.3 540.9	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL USE 95% Approximate Gamma UCL  Number of Unique Samples Log-transformed Statistics Minimum of Log Data Meximum of Log Data Mean of log Data Mean of log Data	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median	0.0267 24.7 1.01 0.733 0.269 ance Level 502.3 540.9	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution at 5% Approximate Gamma UCL. 95% Adjusted Gamma UCL. Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene) General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level 502.3 540.9 10 0.00323 0.082 0.0116 0.00381 0.00347	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 98% Chebyshev(Mean, Sd) UCL Was 95% Approximate Gamma UCL  Use 95% Approximate Gamma UCL  Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significa  Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level 502.3 540.9 10 0.00323 0.082 0.0116 0.00381 0.00347 2.125	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL Use 95% Approximate Gamma UCL  Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution at 5% Approximate Gamma UCL. 95% Adjusted Gamma UCL. Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene) General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level 502.3 540.9 10 0.00323 0.082 0.0116 0.00381 0.00347	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL Use 95% Approximate Gamma UCL  Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significa Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level 502.3 540.9 10 0.00323 0.082 0.0116 0.00381 0.00347 2.125	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL Use 95% Approximate Gamma UCL  Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0267 24.7 1.01 0.733 0.268 0.269 ance Level 502.3 540.9 10 0.00323 0.082 0.0116 0.00381 0.00347 2.125	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL Use 95% Approximate Gamma UCL  Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic	0.0267 24.7 1.01 0.733 0.269 ance Level 502.3 540.9 10 0.00323 0.082 0.0116 0.00381 0.0247 2.125 3.16	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL See 95% Approximate Gamma UCL  Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0267 24.7 1.01 0.733 0.269 ance Level 502.3 540.9 10 0.00323 0.082 0.0116 0.00381 0.0247 2.125 3.16	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL  Use 95% Approximate Gamma UCL  Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Meximum of Log Data Meximum of Log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic	0.0267 24.7 1.01 0.733 0.269 ance Level 502.3 540.9 10 0.00323 0.082 0.0116 0.00381 0.0247 2.125 3.16	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL See 95% Approximate Gamma UCL  Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significa  Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0267 24.7 1.01 0.733 0.269 ance Level 502.3 540.9 10 0.00323 0.082 0.0116 0.00381 0.0247 2.125 3.16	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL Use 95% Approximate Gamma UCL  Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3
Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data follow Appr. Gamma Distribution at 5% Significal Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL Potential UCL to Use  Result or 1/2 SDL (benzo(a)anthracene)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0267 24.7 1.01 0.733 0.269 ance Level 502.3 540.9 10 0.00323 0.082 0.0116 0.00381 0.0247 2.125 3.16	95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 95% Approximate Gamma UCL  Use 95% Approximate Gamma UCL  Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	500.1 476.3 877.8 1100 505.4 601.4 730.2 902 1239 502.3

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0189
95% Adjusted-CLT UCL 95% Modified-t UCL	0.0328 0.0273	97.5% Chebyshev (MVUE) UCL	0.0236 0.033
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.583	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.02		
nu star	11.66		
Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0267	Nonparametric Statistics 95% CLT UCL	0.0245
Adjusted Chi Square Value		95% Jackknife UCL	0.026
		95% Standard Bootstrap UCL	0.0238
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	0.543
Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic		95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	0.258 0.0272
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	0.0351
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.0457
A		97.5% Chebyshev(Mean, Sd) UCL	0.0605
Assuming Gamma Distribution 95% Approximate Gamma UCL	0.0271	99% Chebyshev(Mean, Sd) UCL	0.0894
95% Adjusted Gamma UCL	0.0271		
Retartial IIOI to IIIaa		Han OCCY Objectively (Manage Call HO)	0.0457
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0457
Result or 1/2 SDL (benzo(a)pyrene)			
General Statistics			
Number of Valid Samples	10	Number of Unique Samples	7
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	-5.44
Maximum Mean		Maximum of Log Data Mean of log Data	-2.577 -5.008
Median		SD of log Data	0.863
SD	0.0224	_	
Coefficient of Variation	1.833		
Skewness	3.157		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	2 125
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value		Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.495 0.842
Data not Normal at 5% Significance Level	0.042	Data not Lognormal at 5% Significance Level	0.042
A		A	
Assuming Normal Distribution 95% Student's-t UCL	0.0252	Assuming Lognormal Distribution 95% H-UCL	0.0219
95% UCLs (Adjusted for Skewness)	0.0202	95% Chebyshev (MVUE) UCL	0.0207
95% Adjusted-CLT UCL	0.0314	97.5% Chebyshev (MVUE) UCL	0.0257
95% Modified-t UCL	0.0264	99% Chebyshev (MVUE) UCL	0.0354
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.739	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0165		
nu star Approximate Chi Square Value (.05)	14.78	Nonparametric Statistics	
Adjusted Level of Significance		95% CLT UCL	0.0239
Adjusted Chi Square Value	6.207	95% Jackknife UCL	0.0252
Anderson Badina Test Obellate	0.770	95% Standard Bootstrap UCL	0.0233
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	2,773 0,75		0,307 0,171
Kolmogorov-Smirnov Test Statistic	0.505		0.0263
Kolmogorov-Smirnov 5% Critical Value	0.274	95% BCA Bootstrap UCL	0.0334
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.0431
Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.0565 0.0828
95% Approximate Gamma UCL	0.0254	5575 Grisbyshorthineary ody OOL	5.5020
95% Adjusted Gamma UCL	0.0291		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0431
Described Alo OD! (heart (h))			
Result or 1/2 SDL (benzo(b)fluoranthene)			
General Statistics Number of Valid Samples	10	Number of Unique Samples	10
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	-5.658
Maximum		Maximum of Log Data	-2.865
Mean Median		Mean of log Data SD of log Data	-5,234 0,84
SD	0.00411	OF OILOG DAIL	J,U4
Coefficient of Variation	1.777		
Skewness	3.157		

Relevant UCL Statistics		
Normal Distribution Test Shapiro Wilk Test Statistic	Lognormal Distribution Test	0.497
Shapiro Wilk Critical Value	0.393 Shapiro Wilk Test Statistic 0.842 Shapiro Wilk Critical Value	0.497
Data not Normal at 5% Significance Level	Data not Lognormal at 5% Significance Level	0,042
A		
Assuming Normal Distribution	Assuming Lognormal Distribution 0.0191 95% H-UCL	0.0166
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0191 95% H-UCL 95% Chebyshev (MVUE) UCL	0.0166 0.016
95% Adjusted-CLT UCL	0.0238 97.5% Chebyshev (MVUE) UCL	0.0198
95% Modified-t UCL	0.02 99% Chebyshev (MVUE) UCL	0.0272
Gamma Distribution Test k star (bias corrected)	Data Distribution	
Theta Star	0.777 Data do not follow a Discernable Distribution (0.05) 0.0121	
nu star	15.53	
Approximate Chi Square Value (.05)	7,632 Nonparametric Statistics	
Adjusted Level of Significance	0.0267 95% CLT UCL	0.0181
Adjusted Chi Square Value	6,692 95% Jackknife UCL	0.0191
Andrew Badle West Old Ca	95% Standard Bootstrap UCL	0.0179
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	2.757 95% Bootstrap-t UCL	0.231 0.116
Kolmogorov-Smirnov Test Statistic	0,748 95% Hall's Bootstrap UCL 0.496 95% Percentile Bootstrap UCL	0.118
Kolmogorov-Smirnov 5% Critical Value	0.274 95% BCA Bootstrap UCL	0.0252
Data not Gamma Distributed at 5% Significance Level	95% Chebyshev(Mean, Sd) UCL	0.0325
-	97.5% Chebyshev(Mean, Sd) UCL	0.0424
Assuming Gamma Distribution	99% Chebyshev(Mean, Sd) UCL	0.062
95% Approximate Gamma UCL	0.0192	
95% Adjusted Gamma UCL	0.0218	
Potential UCL to Use	Use 95% Chebyshev (Mean, Sd) UCL	0,0325
	,,,,,,,,,	
m		
Result or 1/2 SDL (benzo(g,h,i)perylene)		
General Statistics		
Number of Valid Samples	10 Number of Unique Samples	9
Raw Statistics	Log-transformed Statistics	
Minimum	0.015 Minimum of Log Data	-4.2
Maximum Mean	0.083 Maximum of Log Data 0.0241 Mean of log Data	-2,489 -3,896
Median	0.0173 SD of log Data	0.508
SD	0.0208	5.555
Coefficient of Variation	0.866	
Skewness	3.104	
Delever A LIOI CARACTER		
Relevant UCL Statistics	Lognormal Distribution Test	
Normal Distribution Test Shapiro Wilk Test Statistic	Lognormal Distribution Test 0.458 Shapiro Wilk Test Statistic	0.581
Shapiro Wilk Critical Value	0.842 Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0361 95% H-UCL	0,0337 0,0391
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	95% Chebyshev (MVUE) UCL 0.0418 97.5% Chebyshev (MVUE) UCL	0.0461
95% Modified-t UCL	0,0372 99% Chebyshev (MVUE) UCL	0.0599
	,,,,,	-,
Gamma Distribution Test	Data Distribution	
k star (bias corrected)	2.254 Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0107	
nu star Approximate Chi Square Value (.05)	45.09 30.68 Nonparametric Statistics	
Adjusted Level of Significance	0.0267 95% CLT UCL	0.0349
Adjusted Chi Square Value	28,63 95% Jackknife UCL	0.0361
•	95% Standard Bootstrap UCL	0.034
Anderson-Darling Test Statistic	2.124 95% Bootstrap-t UCL	0.111
Anderson-Darling 5% Critical Value	0.732 95% Hall's Bootstrap UCL	0.0864
Kolmogorov-Smirnov Test Statistic	0.417 95% Percentile Bootstrap UCL	0.0365
Kolmogorov-Smirnov 5% Critical Value  Data not Gamma Distributed at 5% Significance Level	0.268 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	0.038 0.0527
Sala not Camina Distributed at 5% dignificance Level	97.5% Chebyshev(Mean, Sd) UCL	0.0527
Assuming Gamma Distribution	99% Chebyshev(Mean, Sd) UCL	0.0895
95% Approximate Gamma UCL	0.0353	
95% Adjusted Gamma UCL	0.0379	
Potential UCL to Use	Hea 95% Chahyshay (Maan, Sd) HCI	0.0527
1 Sterikal OCE to OSE	Use 95% Chebyshev (Mean, Sd) UCL	0.0527
D 1 40 001 41 41 41 41 41 41 41 41 41 41 41 41 41		
Result or 1/2 SDL (benzo(k)fluoranthene)		
General Statistics		
Number of Valid Samples	10 Number of Unique Samples	7
Pau Statistics	Log transformed Statistics	
Raw Statistics	Log-transformed Statistics	

Minimum	0,00493	Minimum of Log Data	-5.313
Maximum	0.106	Maximum of Log Data	-2.244
Mean	0.0158	Mean of log Data	-4.861
Median	0.00575	SD of log Data	0.927
SD	0.0317		
Coefficient of Variation	2		
Skewness	3.16		
D. L			
Relevant UCL Statistics		Laurana Distribution Tost	
Normal Distribution Test	0.000	Lognormal Distribution Test	0.483
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	
Shapiro Wilk Critical Value	0.642	Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0342	95% H-UCL	0,0296
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0263
95% Adjusted-CLT UCL	0.043	97.5% Chebyshev (MVUE) UCL	0.0328
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	0.0455
Gamma Distribution Test k star (bias corrected)	0.644	Data Distribution Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0246		
nu star	12.88		•
		Nonparametric Statistics	
Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0267		0,0323
			0.0342
Adjusted Chi Square Value	5.014	95% Jackknife UCL 95% Standard Bootstrap UCL	0.0342
Anderson-Darling Test Statistic	2.864	•	0.608
•		•	0.269
Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.754 0.505		0.269
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	0.0336
	0.275	95% Chebyshev(Mean, Sd) UCL	0.0595
Data not Gamma Distributed at 5% Significance Level			0.0353
Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL	0.0784
<u> </u>	0.0351	99% Chebyshev(Mean, Sd) UCL	0.110
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0351		
00,07,04,0000	5,5 (6)		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0595
Result or 1/2 SDL (cadmium)			
General Statistics			
General Statistics Number of Valid Samples	10	Number of Unique Samples	8
	10	Number of Unique Samples	8
	10	Number of Unique Samples Log-transformed Statistics	8
Number of Valid Samples			8 -4.893
Number of Valid Samples  Raw Statistics	0.0075	Log-transformed Statistics	
Number of Valid Samples  Raw Statistics Minimum	0.0075 0.11	Log-transformed Statistics Minimum of Log Data	-4.893 -2.207 -4.091
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0075 0.11 0.0311	Log-transformed Statistics Minimum of Log Data Maximum of Log Data	-4.893 -2.207
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD	0.0075 0.11 0.0311 0.0095 0.0398	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.893 -2.207 -4.091
Number of Valid Samples Raw Statistics Minimum Maximum Mean Median	0.0075 0.11 0.0311 0.0095 0.0398 1,283	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.893 -2.207 -4.091
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD	0.0075 0.11 0.0311 0.0095 0.0398	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.893 -2.207 -4.091
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0075 0.11 0.0311 0.0095 0.0398 1,283	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.893 -2.207 -4.091
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics	0.0075 0.11 0.0311 0.0095 0.0398 1,283	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-4.893 -2.207 -4.091
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test	-4.893 -2.207 -4.091 1.081
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic	-4.893 -2.207 -4.091 1.081
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	-4.893 -2.207 -4.091 1.081
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic	-4.893 -2.207 -4.091 1.081
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	-4.893 -2.207 -4.091 1.081
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Assuming Normal Distribution	0.0075 0.11 0.0311 0.0095 0.0098 1.283 1.571 0.641	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	-4.893 -2.207 -4.091 1.081 0.713 0.842
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL	4.893 -2.207 -4.091 1.081 0.713 0.842
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	4.893 -2.207 -4.091 1.081 0.713 0.842
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.842	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842 0.0541	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	0.0075 0.11 0.0311 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (blas corrected) Theta Star	0.0075 0.11 0.0311 0.0098 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0585	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5. 6.912	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% SIgnificance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5. 6.912	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.025	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0518 0.0541 0.0507 0.105
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.025	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0518 0.0541 0.0541 0.0560 0.105 0.105 0.105
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.0267 6.0267 6.0267	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-I UCL 95% Hall's Bootstrap UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0507 0.105 0.0699 0.0515
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.026	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Tritical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL SOM Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% BCA Bootstrap UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0518 0.0541 0.0507 0.105 0.0699 0.0515 0.0581
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.0267 6.0267 6.0267	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% Chebyshev (Mean, Sd) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0541 0.0561 0.0699 0.0515 0.0689 0.0881
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.0267 6.0267 6.0267	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Tritical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL SOM Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% BCA Bootstrap UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0518 0.0541 0.0507 0.105 0.0699 0.0515 0.0581
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.0267 6.0267 6.0267	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% Chebyshev (Mean, Sd) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0541 0.0561 0.0699 0.0515 0.0689 0.0881
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.0267 6.0267 6.0267	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Brecentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev (Mean, Sd) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0507 0.0507 0.0699 0.0515 0.0581 0.086 0.11
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Assuming Gamma Distributed at 5% Significance Level Assuming Gamma Distribution	0.0075 0.11 0.0311 0.0095 0.0398 1.283 1.571 0.641 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.025 1.584 0.75 0.411 0.274	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Brecentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev (Mean, Sd) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0507 0.0507 0.0699 0.0515 0.0581 0.086 0.11
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.025 1.584 0.75 0.411 0.274	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL 95% Chebyshev (Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0507 0.105 0.0699 0.0515 0.086 0.11 0.156
Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (blas corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling Test Statistic Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distribution 95% Approximate Gamma UCL	0.0075 0.11 0.0311 0.095 0.0398 1.283 1.571 0.641 0.842 0.0541 0.0585 0.0552 0.725 0.0428 14.5 6.912 0.0267 6.025 1.584 0.75 0.411 0.274	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Brecentile Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev (Mean, Sd) UCL	-4.893 -2.207 -4.091 1.081 0.713 0.842 0.0974 0.071 0.0898 0.127 0.0507 0.0507 0.0699 0.0515 0.0581 0.086 0.11

## Recommended UCL exceeds the maximum observation

## Result or 1/2 SDL (carbazole)

Result of 1/2 SDL (carbazole)			
General Statistics Number of Valid Samples	10	Number of Unique Samples	9
Raw Statistics Minimum Maximum Mean Median	0.011 0.00512	Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	-5.583 -4.51 -5.328 0.312
SD Coefficient of Variation Skewness	0.00214 0.418 2.781		
Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value		Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.731 0.842
Data not Normal at 5% Significance Level	0,5 12	Data not Lognormal at 5% Significance Level	5.5.2
Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.00636 0.00687 0.00646	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.00627 0.00727 0.00822 0.0101
Gamma Distribution Test k star (bias corrected) Theta Star nu star	6.758 7.57E-04 135.2		
Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	0,0267 105.3	95% Jackknife UCL 95% Standard Bootstrap UCL	0.00623 0.00636 0.0062
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level	1.249 0.725 0.286 0.267	95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	0.00912 0.0106 0.00636 0.00679 0.00807 0.00934
Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.00633 0.00657	99% Chebyshev(Mean, Sd) UCL	0.0119
Potential UCL to Use	•	Use 95% Student's-t UCL or 95% Modified-t UCL	0.00636 0.00646
Result or 1/2 SDL (chromium)			
General Statistics Number of Valid Samples	10	Number of Unique Samples	9
Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness	20.1 15.2	Log-transformed Statistics MinImum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.37 3.001 2.703 0.199
Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level		Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	0.945 0.842
Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL		Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	17.26 19.39 21.21 24.77
Gamma Distribution Test k star (bias corrected) Theta Star nu star	0,767 396.2		
Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	351.1 0.0267 343.7 0.388	95% Jackknife UCL 95% Standard Bootstrap UCL	16.77 16.95 16.7 17.01
	0,000		,,,,,,,

Anderson-Darling 5% Critical Value	0.725	95% Hall's Bootstrap UCL	16.75
Kolmogorov-Smirnov Test Statistic	0.205	95% Percentile Bootstrap UCL	16.71
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	16.74
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	19.36
Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL	21.16 24.7
95% Approximate Gamma UCL	17.15	99% Chebyshev(Mean, Sd) UCL	24.7
95% Adjusted Gamma UCL	17.52		
77.7.1.Ju-102 03.111112 002	17.02		
Potential UCL to Use		Use 95% Student's-t UCL	16,95
B # 49 004 (1)			
Result or 1/2 SDL (chrysene)			
General Statistics			
Number of Valid Samples	10	Number of Unique Samples	6
David Olatfattas		I i i i i i i i i i i i i i i i i i i i	
Raw Statistics Minimum	0.000	Log-transformed Statistics Minimum of Log Data	-5,116
Maximum		Maximum of Log Data	-2.489
Mean		Mean of log Data	-4.742
Median		SD of log Data	0.8
SD	0.0241	_	
Coefficient of Variation	1.668		
Skewness	3.156		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.395	Shapiro Wilk Test Statistic	0.493
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0,842
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0284	95% H-UCL	0.0247 0.0247
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0254	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.0247
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	0.0303
557/ Modified ( 55E	0.0257	33 % Oricelyshov (MVGE) BGE	0.0411
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.856	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0169		
nu star	17.12		
Approximate Chi Square Value (.05)		Nonparametric Statistics	0.007
Adjusted Level of Significance	0.0267		0.027
Adjusted Chi Square Value	7.74	95% Jackknife UCL 95% Standard Bootstrap UCL	0.0284 0.0264
Anderson-Darling Test Statistic	2 737	95% Bootstrap-t UCL	0,307
Anderson-Darling 5% Critical Value		95% Hall's Bootstrap UCL	0.154
Kolmogorov-Smirnov Test Statistic	0.496		0.0296
Kolmogorov-Smirnov 5% Critical Value	0,273	•	0.0372
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.0477
		97.5% Chebyshev(Mean, Sd) UCL	0.062
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0,0903
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0,0282		
95 % Adjusted Gariffia OCL	0,032		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0477
		·	
Result or 1/2 SDL (copper)			
General Statistics			
Number of Valid Samples	10	Number of Unique Samples	10
•		•	
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	2.039
Maximum		Maximum of Log Data	2.96
Mean		Mean of log Data	2.449
Median SD		SD of log Data	0.313
Coefficient of Variation	3,955 0,326		
Skewness	0.802		
	0.002		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.911	Shapiro Wilk Test Statistic	0,948
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lagranged Distribution	
95% Student's-t UCL	14.41	Assuming Lognormal Distribution 95% H-UCL	14,96
95% UCLs (Adjusted for Skewness)	ı <del></del> 1	95% Chebyshev (MVUE) UCL	17.35
95% Adjusted-CLT UCL	14.51	97.5% Chebyshev (MVUE) UCL	19.63
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	24.1
Gamma Distribution Test		Data Distribution	

k star (bias corrected) Theta Star nu star	7.922 Data appear Normal at 5% Significance Level 1.529 158.4	
Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	130.3 Nonparametric Statistics 0.0267 95% CLT UCL 125.9 95% Jackknife UCL	14.17 14.41
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data appear Gamma Distributed at 5% Significance Level	95% Standard Bootstrap UCL 0.317 95% Bootstrap+ UCL 0.725 95% Hall's Bootstrap UCL 0.175 95% Percentile Bootstrap UCL 0.267 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	14.08 15.03 14.63 14.04 14.54 17.57 19.93
Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	99% Chebyshev(Mean, Sd) UCL 14.73 15.25	24.56
Potential UCL to Use	Use 95% Student's-t UCL	14.41
Result or 1/2 SDL (fluoranthene)		
General Statistics Number of Valid Samples	10 Number of Unique Samples	7
Raw Statistics Minimum	Log-transformed Statistics 0.00486 Minimum of Log Data	-5,328
Maximum	0.156 Maximum of Log Data	-1.858
Mean Median	0.0208 Mean of log Data 0.00575 SD of log Data	-4.834 1.053
SD Coefficient of Verietien	0.0475	
Coefficient of Variation Skewness	2.286 3.161	
Relevant UCL Statistics Normal Distribution Test	Lognomal Distribution Test	
Shapiro Wilk Test Statistic	0.38 Shapiro Wilk Test Statistic	0.477
Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.842 Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	0.842
Assuming Normal Distribution 95% Student's-t UCL	Assuming Lognormal Distribution 0.0483 95% H-UCL	0.0428
95% UCLs (Adjusted for Skewness)	95% Chebyshev (MVUE) UCL	0.0324
95% Adjusted-CLT UCL 95% Modified-t UCL	0.0615 97.5% Chebyshev (MVUE) UCL 0.0508 99% Chebyshev (MVUE) UCL	0.0409 0.0575
Gamma Distribution Test k star (bias corrected)	Data Distribution 0.513 Data do not follow a Discernable Distribution (0	05)
Theta Star	0.0405	,uo,
nu star Approximate Chi Square Value (.05)	10.26 4.106 Nonparametric Statistics	
Adjusted Level of Significance	0.0267 95% CLT UCL	0.0455
Adjusted Chi Square Value	3.456 95% Jackknife UCL 95% Standard Bootstrap UCL	0.0483 0.0443
Anderson-Darling Test Statistic	2.929 95% Bootstrap-t UCL	1.171
Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0,766 95% Hall's Bootstrap UCL 0,515 95% Percentile Bootstrap UCL	0.527 0.0508
Kolmogorov-Smirnov 5% Critical Value	0.278 95% BCA Bootstrap UCL	0.0659
Data not Gamma Distributed at 5% Significance Level	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0,0863 0,115
Assuming Gamma Distribution	99% Chebyshev(Mean, Sd) UCL	0.17
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0519 0.0617	
Potential UCL to Use Recommended UCL exceeds the maximum observation	Use 99% Chebyshev (Mean, Sd) UCL	0.17
Result or 1/2 SDL (indeno(1,2,3-cd)pyrene)		
General Statistics Number of Valid Samples	10 Number of Unique Samples	9
Raw Statistics	Log-transformed Statistics	
Minimum	0.0125 Minimum of Log Data	-4.382 0.975
Maximum Mean	0.417 Maximum of Log Data 0.0551 Mean of log Data	-0.875 -3.88
Median	0.0148 SD of log Data	1.063
SD Coefficient of Variation	0.127 2.308	
Skewness	3.161	
Relevant UCL Statistics	1801700 = 1	
Normal Distribution Test Shapiro Wilk Test Statistic	Lognormal Distribution Test 0.379 Shapiro Wilk Test Statistic	0.47
Shapiro Wilk Critical Value	0.842 Shapiro Wilk Critical Value	0.842

Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Aggreeing Normal Distribution		Accoming Lagranged Distribution	
Assuming Normal Distribution 95% Student's-t UCL	0.129	Assuming Lognormal Distribution 95% H-UCL	0.114
95% UCLs (Adjusted for Skewness)	0.129	95% Chebyshev (MVUE) UCL	0.114
95% Adjusted-CLT UCL	0.164	97.5% Chebyshev (MVUE) UCL	0.108
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	0.152
		, , , , , , , , , , , , , , , , , , , ,	
Gamma Distribution Test		Data Distribution	
k star (bias corrected)		Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.109		
nu star	10.09		
Approximate Chi Square Value (.05) Adjusted Level of Significance		Nonparametric Statistics 95% CLT UCL	0.121
Adjusted Chi Square Value		95% Jackknife UCL	0.129
Adjusted Offi Oquate Value	3.30	95% Standard Bootstrap UCL	0.119
Anderson-Darling Test Statistic	2.966	95% Bootstrap-t UCL	3.62
Anderson-Darling 5% Critical Value	0.767	•	1.642
Kolmogorov-Smirnov Test Statistic	0.523	•	0.135
Kolmogorov-Smirnov 5% Critical Value	0.278	95% BCA Bootstrap UCL	0.175
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.23
		97.5% Chebyshev(Mean, Sd) UCL	0,306
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.455
95% Approximate Gamma UCL	0.139		
95% Adjusted Gamma UCL	0.166		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.455
Recommended UCL exceeds the maximum observation			
Populk or 1/2 CDL (load)			
Result or 1/2 SDL (lead)			
General Statistics		Nicolar of Delaya Complete	_
Number of Valid Samples	10	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	
Minimum	11	Minimum of Log Data	2.398
Maximum		Maximum of Log Data	2.721
Mean		Mean of log Data	2.591
Median		SD of log Data	0.118
SD	1.547		
Coefficient of Variation	0.115		
Skewness	-0.326		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.913	Shapiro Wilk Test Statistic	0.909
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0.842
Data appear Normal at 5% Significance Level	0,0 12	Data appear Lognormal at 5% Significance Level	5.5 12
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	14.33	95% H-UCL	14.43
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	15.62
95% Adjusted-CLT UCL 95% Modified-t UCL		97.5% Chebyshev (MVUE) UCL	16.56
95% Modified-t UCL	14.32	99% Chebyshev (MVUE) UCL	18.42
Gamma Distribution Test		Data Distribution	
k star (bias corrected)		Data appear Normal at 5% Significance Level	
Theta Star	0.236		
nu star	1140	N	
Approximate Chi Square Value (.05)		Nonparametric Statistics	44.00
Adjusted Level of Significance	0.0267	95% CLT UCL	14.23
Adjusted Chi Square Value	1050	95% Jackknife UCL 95% Standard Bootstrap UCL	14.33 14.18
Anderson-Darling Test Statistic	0,379		14.10
Anderson-Darling 5% Critical Value	0.724		14.11
Kolmogorov-Smirnov Test Statistic	0.169	•	14.17
Kolmogorov-Smirnov 5% Critical Value	0.266		14.15
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	15,56
_		97.5% Chebyshev(Mean, Sd) UCL	16.49
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	18.3
95% Approximate Gamma UCL	14.41		
95% Adjusted Gamma UCL	14.59		
Potential UCL to Use		Use 95% Student's-t UCL	14.33
Decult on 4/2 CDL (lithium)			
Result or 1/2 SDL (lithium)			
General Statistics	40	Number of Unique Samples	10
Number of Valid Samples	10	Number of Unique Samples	10
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	2.667
Maximum		Maximum of Log Data	3.481
Mean	21.14	Mean of log Data	3.027

Median SD Coefficient of Variation Skewness	19.9 5.166 0.244 1.214		0.229
Relevant UCL Statistics Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.912	Shapiro Wilk Test Statistic	0.965
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	24.13	95% H-UCL	24.5
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	24.5	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	27.82 30.72
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	36.42
O Distribution Test		Data Distribution	
Gamma Distribution Test k star (bias corrected)	14.43	Data Distribution Data appear Normal at 5% Significance Level	
Theta Star	1.465		
nu star	288,6		
Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0267	Nonparametric Statistics 95% CLT UCL	23,83
Adjusted Chi Square Value	244.1	95% Jackknife UCL	24.13
Anderson Derline Test Statistic	0 244	95% Standard Bootstrap UCL	23.71
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	0.311 0.725	•	26.29 40.64
Kolmogorov-Smirnov Test Statistic	0,2	•	23.88
Kolmogorov-Smirnov 5% Critical Value	0.266		24.4 28.26
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	26.26 31.34
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	37.39
95% Approximate Gamma UCL	24.38		•
95% Adjusted Gamma UCL	25		
Potential UCL to Use		Use 95% Student's-t UCL	24.13
Result or 1/2 SDL (manganese)			
General Statistics Number of Valid Samples	10	Number of Unique Samples	9
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Raw Statistics	00.4	Log-transformed Statistics	5.040
Minimum Maximum		Minimum of Log Data Maximum of Log Data	5.649 6.312
Mean		Mean of log Data	5,909
Median SD		SD of log Data	0.227
Coefficient of Variation	93.76 0.248		
Skewness	1.28		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.843
Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	0.842	Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	0.842
Data not Normal at 5% significance cever		Data appear Logitormar at 5% digrillicance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	431.8	95% H-UCL 95% Chebyshev (MVUE) UCL	436.5 495.4
95% Adjusted-CLT UCL	439	97.5% Chebyshev (MVUE) UCL	546.6
95% Modified-t UCL	433.8	99% Chebyshev (MVUE) UCL	647.4
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	14.38	Data appear Lognormal at 5% Significance Level	
Theta Star	26.25		
Approximate Chi Square Value (.05)	287.6 249.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0267	95% CLT UCL	426,2
Adjusted Chi Square Value	243.1	95% Jackknife UCL 95% Standard Bootstrap UCL	431.8 422.7
Anderson-Darling Test Statistic	0.85	•	422.7 494.2
Anderson-Darling 5% Critical Value	0.725	95% Hail's Bootstrap UCL	681.2
Kolmogorov-Smirnov Test Statistic	0.284		425.6
Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level	0.266	95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	436.6 506.6
-		97.5% Chebyshev(Mean, Sd) UCL	562.6
Assuming Gamma Distribution	405.0	99% Chebyshev(Mean, Sd) UCL	672.4
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	435.3 446.4		
·			4= -
Potential UCL to Use		Use 95% Student's-t UCL or 95% Modified-t UCL	431.8 433.8
			436.5
		or 95% H-UCL	430.5

## Result or 1/2 SDL (mercury)

Result of 172 SDE (Hiercury)			
General Statistics Number of Valid Samples	10	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	0.015	Minimum of Log Data	-4.2
Maximum		Maximum of Log Data	-3.507
Mean		Mean of log Data	-3.871
Median SD	0.0195	SD of log Data	0.217
Coefficient of Variation	0.00475		
Skewness	0.734		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.937
Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	0.042	Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	0.842
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Assuming Normal Distribution 95% Student's-t UCL	0.0241	Assuming Lognormal Distribution 95% H-UCL	0.0245
95% UCLs (Adjusted for Skewness)	0.02-71	95% Chebyshev (MVUE) UCL	0.0277
95% Adjusted-CLT UCL	0.0242	97.5% Chebyshev (MVUE) UCL	0.0305
95% Modified-t UCL	0.0241	99% Chebyshev (MVUE) UCL	0.0359
Gamma Distribution Test		Data Distribution	
k star (bias corrected)		Data appear Normal at 5% Significance Level	
Theta Star	0.00131		
nu star	326.1	Nonnerowatrio Challation	
Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0267	Nonparametric Statistics 95% CLT UCL	0.0238
Adjusted Chi Square Value		95% Jackknife UCL	0.0241
·		95% Standard Bootstrap UCL	0.0236
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	0.0246
Anderson-Darling 5% Critical Value		95% Hall's Bootstrap UCL	0.024
Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.266	95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL	0.0238 0.0239
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.0279
		97.5% Chebyshev(Mean, Sd) UCL	0.0308
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0364
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0243 0.0249		
33 % Aujusteu Garrilla OCL			
•			
Potential UCL to Use		Use 95% Student's-t UCL	0.0241
·		Use 95% Student's-t UCL	0.0241
Potential UCL to Use		Use 95% Student's-t UCL	0.0241
Potential UCL to Use  Result or 1/2 SDL (molybdenum)		Use 95% Student's-t UCL  Number of Unique Samples	0.0241
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics			
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum	10	Number of Unique Samples Log-transformed Statistics Minimum of Log Data	10 -0,868
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum	10 0.42 0.68	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	10 -0.868 -0.386
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean	0.42 0.68 0.522	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-0.868 -0.386 -0.659
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum	10 0.42 0.68 0.522 0.505	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data	10 -0.868 -0.386
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Mean Median	0.42 0.68 0.522	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-0.868 -0.386 -0.659
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD	0.42 0.68 0.522 0.505 0.0739	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-0.868 -0.386 -0.659
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation	0.42 0.68 0.522 0.505 0.0739 0.142	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data	-0.868 -0.386 -0.659
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test	0.42 0.68 0.522 0.505 0.0739 0.142 0.94	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test	-0.868 -0.386 -0.659 0.137
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic	0.42 0.68 0.522 0.505 0.0739 0.142 0.94	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic	-0.868 -0.386 -0.659 0.137
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.42 0.68 0.522 0.505 0.0739 0.142 0.94	Number of Unique Samples Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data Lognormal Distribution Test	-0.868 -0.386 -0.659 0.137
Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	0.42 0.68 0.522 0.505 0.0739 0.142 0.94	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level	-0.868 -0.386 -0.659 0.137
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution	0.42 0.68 0.522 0.505 0.0739 0.142 0.94	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution	-0.868 -0.386 -0.659 0.137
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL	0.42 0.68 0.522 0.505 0.0739 0.142 0.94	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Mean of log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL	-0.868 -0.386 -0.659 0.137 0.974 0.842
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-0.868 -0.386 -0.659 0.137 0.974 0.842
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	-0.868 -0.386 -0.659 0.137 0.974 0.842
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Mean of log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663
Potential UCL to Use  Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.566 40.85 0.0128 817	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Mean of log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level	0.868 -0.386 -0.659 0.137 0.974 0.842 0.568 0.621 0.663
Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.568 0.566 40.85 0.0128 817 751.7	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level  Nonparametric Statistics	0.868 -0.386 -0.659 0.137  0.974 0.842  0.568 0.621 0.663 0.747
Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.566 0.566 40.85 0.0128 817 751,7 0.0267	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level  Nonparametric Statistics 95% CLT UCL	0.868 -0.386 -0.659 0.137  0.974 0.842  0.568 0.621 0.663 0.747
Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.568 0.566 40.85 0.0128 817 751.7	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level  Nonparametric Statistics 95% CLT UCL	0.868 -0.386 -0.659 0.137  0.974 0.842  0.568 0.621 0.663 0.747
Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.568 0.566 40.85 0.0128 817 751.7 0.0267 740.8	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Standard Bootstrap UCL	0.868 -0.386 -0.659 0.137  0.974 0.842  0.568 0.621 0.663 0.747  0.56 0.565 0.565 0.579
Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling Test Statistic	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.566 40.85 0.0128 817 751.7 0.0267 740.8	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data appear Normal at 5% Significance Level  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Hall's Bootstrap UCL	0.868 -0.386 -0.659 0.137  0.974 0.842  0.568 0.621 0.663 0.747  0.56 0.565 0.565 0.579 0.59
Result or 1/2 SDL (molybdenum)  General Statistics Number of Valid Samples  Raw Statistics Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.42 0.68 0.522 0.505 0.0739 0.142 0.94 0.947 0.842 0.565 0.568 0.566 40.85 0.0128 817 751.7 0.0267 740.8	Number of Unique Samples  Log-transformed Statistics Minimum of Log Data Mean of log Data Mean of log Data Mean of log Data SD of log Data  Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 95% Chebyshev (MVUE) UCL 95% CLT UCL 95% Jackknife UCL 95% Jackknife UCL 95% Bootstrap-t UCL 95% Percentile Bootstrap UCL	0.868 -0.386 -0.659 0.137  0.974 0.842  0.568 0.621 0.663 0.747  0.56 0.565 0.565 0.579

Data appear Gamma Distributed at 5% Significance Level Assuming Gamma Distribution 95% Approximate Gamma UCL	0.567		0.624 0.668 0.755	
95% Adjusted Gamma UCL  Potential UCL to Use	0,576	Use 95% Student's-t UCL	0,565	
Result or 1/2 SDL (phenanthrene)				
General Statistics Number of Valid Samples	10	Number of Unique Samples	10	
Raw Statistics Minimum	0.00286	Log-transformed Statistics Minimum of Log Data	-5.859	
Maximum	0.137	Maximum of Log Data	-1.988	
Mean Median		Mean of log Data SD of log Data	-5.327 1.179	
SD	0,0423			
Coefficient of Variation Skewness	2.525 3.162			
Relevant UCL Statistics				
Normal Distribution Test		Lognormal Distribution Test		
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value		Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0,459 0,842	
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level		
Assuming Normal Distribution		Assuming Lognormal Distribution		
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0412	95% H-UCL 95% Chebyshey (MVUE) UCL	0.0383 0.0239	
95% Adjusted-CLT UCL		97.5% Chebyshev (MVUE) UCL	0.0304	
95% Modified-t UCL	0,0435	99% Chebyshev (MVUE) UCL	0.0432	
Gamma Distribution Test k star (bias corrected)	0.425	Data Distribution Data do not follow a Discernable Distribution (0,05)		
Theta Star	0.0394			
nu star Approximate Chi Square Value (.05)	8,497 3,026	Nonparametric Statistics		
Adjusted Level of Significance	0.0267	95% CLT UCL	0.0387	
Adjusted Chi Square Value	2.487	95% Jackknife UCL 95% Standard Bootstrap UCL	0.0412 0.0378	
Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value		95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	1.724 0,748	
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL	0.748	
Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level	0.281	95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL	0.0568 0.075	
· ·		97.5% Chebyshev(Mean, Sd) UCL	0.1	
Assuming Gamma Distribution 95% Approximate Gamma UCL	0.047	99% Chebyshev(Mean, Sd) UCL	0.15	
95% Adjusted Gamma UCL	0.0572			
Potential UCL to Use Recommended UCL exceeds the maximum observation		Use 99% Chebyshev (Mean, Sd) UCL	0.15	
Result or 1/2 SDL (pyrene)				
General Statistics		Number of Heiman Complex		
Number of Valid Samples	10	Number of Unique Samples	7	
Raw Statistics Minimum	0.0085	Log-transformed Statistics Minimum of Log Data	-4.768	
Maximum	0.127	Maximum of Log Data	-2.064	
Mean Median		Mean of log Data SD of log Data	-4.347 0.811	
SD Coefficient of Veriation	0.037			
Coefficient of Variation Skewness	1,696 3,156			
Relevant UCL Statistics				
Normal Distribution Test		Lognormal Distribution Test	0.504	
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value		Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.501 0.842	
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level		
Assuming Normal Distribution		Assuming Lognormal Distribution		
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0432	95% H-UCL 95% Chebyshev (MVUE) UCL	0.0376 0.0373	
95% Adjusted-CLT UCL		97.5% Chebyshev (MVUE) UCL	0.046	
95% Modified-t UCL	0.0452	99% Chebyshev (MVUE) UCL	0.063	
Gamma Distribution Test k star (bias corrected)	U 834	Data Distribution Data do not follow a Discernable Distribution (0.05)		
Theta Star	0.0262			

nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Level Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	16.67 8.437 Nonparametric Statistics 0.0267 95% CLT UCL 7.441 95% Standard Bootstrap UCL 95% Standard Bootstrap UCL 2.722 95% Bootstrap-t UCL 0.747 95% Hall's Bootstrap UCL 0.493 95% Percentile Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL 0.0431 0.0488	0.041 0.0432 0.0404 0.464 0.239 0.0452 0.0564 0.0728 0.0948
Potential UCL to Use	Use 95% Chebyshev (Mean, Sd) UCL	0.0728
Result or 1/2 SDL (zinc) General Statistics		
Number of Valid Samples	10 Number of Unique Samples	10
Raw Statistics Minimum Maximum Meximum Median SD Coefficient of Variation Skewness	Log-transformed Statistics 36.6 Minimum of Log Data 969 Maximum of Log Data 247 Mean of log Data 75.5 SD of log Data 364.6 1.476 1.694	3.6 6.876 4.667 1.272
Relevant UCL Statistics Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	Lognormal Distribution Test 0.62 Shapiro Wilk Test Statistic 0.842 Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	0.795 0.842
Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	Assuming Lognormal Distribution 458.3 95% H-UCL 95% Chebyshev (MVUE) UCL 502.6 97.5% Chebyshev (MVUE) UCL 468.6 99% Chebyshev (MVUE) UCL	1141 602.7 772.1 1105
Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	Data Distribution 0.567 Data do not follow a Discernable Distribution (0.05 435.3 11.35 4.8 Nonparametric Statistics	
Adjusted Level of Significance Adjusted Chi Square Value  Anderson-Darling Test Statistic	0.0267 95% CLT UCL 4.085 95% Jackknife UCL 95% Standard Bootstrap UCL 1.247 95% Bootstrap-t UCL	436.6 458.3 426.1 1346
Anderson-Darling 15% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.76 95% Hall's Bootstrap UCL 0.346 95% Percentile Bootstrap UCL	1691 430.3 496.4
Data not Gamma Distributed at 5% Significance Level	0.277 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	749.5 967
Assuming Gamma Distribution 95% Approximate Gamma UCL 95% Adjusted Gamma UCL	99% Chebyshev(Mean, Sd) UCL 583.8 685.9	1394
Potential UCL to Use Recommended UCL exceeds the maximum observation	Use 99% Chebyshev (Mean, Sd) UCL	1394

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## APPENDIX A-6

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lla - O-lasted Oatland	General UCL Statistic	s for Full Da	ita Sets	P. P. P. C.
User Selected Options	_ (	A .1 . 1	A OTICIDO A MILES VIII AND LEIS DI VIII/OCI DELLA MARCHANIA	
From File	OFF	(laata querie	es oct 07\EPC tables with onehalf DL\IWSE Data - Just site	data.wst
Full Precision				
Confidence Coefficient	95%	**************************************		
Number of Bootstrap Operations	2000	#1 This PP L MP L PP L T L T PP T Ago This has A S I K 1000 10 M C M C I F 100		
Result or 1/2 SDL (1,2-dichloroet	hane)			***************************************
		General	Statistics	
N	lumber of Valid Samples	16	Number of Unique Samples	16
Raw S	Statistics .	<del></del>	Log-transformed Statistics	
Hit in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state o	Minimum	9.2000E-5	Minimum of Log Data	-9.294
antinangginiyayininassaani qiyotiminin qaasadidigaaboo ahiida ee istaabaayi saasii	Maximum	0.0030	Maximum of Log Data	-5.802
Ar identify and the commission of the surfame believed for the paradement are a conserved.	Mean	4.1025E-4	Mean of log Data	-8.349
kat in terkeryken een krykendere met krekende regen erwek regen de maak 1100 kaal 40 een 100 een terkende ekspe	Median	1.7900E-4	SD of log Data	0.893
an almost an American (1994) in the superior of the American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American American Ameri	SD	7.0923E-4		
annaturni kapitana manana makarin shirin	Coefficient of Variation	1.729		
	Skewness	3.752		
and the latest separate the latest specification of the separation of the separate specific specific specific		Relevant U(	CL Statistics	
Normal Dis	tribution Test		Lognormal Distribution Test	***********************
St	napiro Wilk Test Statistic	0.432	Shapiro Wilk Test Statistic	0.832
Sh	apiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at !	5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Nor	mal Distribution	nger antiann hij elle end ann ar fall nas , ann na leas bar	Assuming Lognormal Distribution	
tarinin niyoso o yoqiya isisisi aha qa <u>ladida ahan qalada ahan day</u> dara dagga qara sandir qasaqan qara	95% Student's-t UCL	7.2108E-4	95% H-UCL	6.3456E-
95% UCLs (Adju	isted for Skewness)		95% Chebyshev (MVUE) UCL	7.0066E-
HHEBITATA SALISE PARETEN MARIAN MARIAN MARIAN MARIAN PER MARIAN MARIAN PARETEN	95% Adjusted-CLT UCL	8.7963E-4	97.5% Chebyshev (MVUE) UCL	8.5627E-
	95% Modified-t UCL	7.4880E-4	99% Chebyshev (MVUE) UCL	0.00
Gamma Dis	tribution Test	radi *** Listor * *** * to boot fact * dick* I v aring	Data Distribution	
	k star (bias corrected)	0.889	Data do not follow a Discernable Distribution (0.0	)5)
anningantarananankaranananananankakanik Mililikkantaranilarisidik askittifilikatik	Theta Star	4.6126E-4		
THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O	nu star	28.46		
Approximate	Chi Square Value (.05)	17.29	Nonparametric Statistics	
Adjust	ed Level of Significance	0.0335	95% CLT UCL	7.0189E-
Adj	usted Chi Square Value	16.3	95% Jackknife UCL	7.2108E-
			95% Standard Bootstrap UCL	6.9181E-
Anders	on-Darling Test Statistic	1.681	95% Bootstrap-t UCL	0.00
Anderson-D	Parling 5% Critical Value	0.763	95% Hall's Bootstrap UCL	0.00
Kolmogoro	v-Smirnov Test Statistic	0.283	95% Percentile Bootstrap UCL	7.4878Ĕ-
Kolmogorov-Sr	nirnov 5% Critical Value	0.221	95% BCA Bootstrap UCL	9.6719E-
Data not Gamma Distribut	ed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.00
THE THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPER			97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gan	nma Distribution	L.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	99% Chebyshev(Mean, Sd) UCL	0.002
95% Ap	proximate Gamma UCL	6.7541E-4		
95%	Adjusted Gamma UCL	7.1630E-4	and the strong and a strong at the strong property and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a strong and a	
			of the first and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	····

Potential UCL to Use	40.000	Use 95% Chebyshev (Mean, Sd) UCL	0.00
ult or 1/2 SDL (1,2diphenylhydrazine/azobenzen)			
	General Stati	istics	meticalmara valuaria
Number of Valid Samples	16	Number of Unique Samples	13
Raw Statistics	transference to the second second second second second second second second second second second second second	Log-transformed Statistics	
Minimum	0.0050	Minimum of Log Data	-5.28
Maximum	0.0317	Maximum of Log Data	-3.45
Mean	0.0073	Mean of log Data	-5.05
Median	0.0054	SD of log Data	0.44
SD	0.0065		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Coefficient of Variation	0.883		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Skewness	3.903		
R	Relevant UCL S	tatistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.369	Shapiro Wilk Test Statistic	0.5
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level	0.000	Data not Lognormal at 5% Significance Level	
Accuming Normal Distribution		Accuming Longormal Distribution	
Assuming Normal Distribution  95% Student's-t UCL	0.0103	Assuming Lognormal Distribution 95% H-UCL	0.00
95% UCLs (Adjusted for Skewness)	0.0103	95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0118	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0105	99% Chebyshev (MVUE) UCL	0.0
			**************************************
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.896	Data do not follow a Discernable Distribution (0.05	•)
Theta Star	0.0025		
nu star	92.68		
Approximate Chi Square Value (.05)	71.48	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.0
Adjusted Chi Square Value	69.36	95% Jackknife UCL	0.0
Andrew Doding Took Statistics	2.452	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.02
Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value	3.453 0.743	95% Bootstrap UCL	0.02
Kolmogorov-Smirnov Test Statistic	0.743	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 1est Statistic	0.376	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.0
Data not Gamma Distributed at 3% Significance Le	<b>V</b> GI	97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.02
95% Approximate Gamma UCL	0.0095	,,,	
95% Adjusted Gamma UCL	0.0098		
Potential UCL to Use		Use 95% Student's-t UCL	0.0
Folential OCL to USE	-	OSE 30% Students-t OCL	0.0

Result or 1/2 SDL (2-methylnaphthalene)

	General St	tatistics	
Number of Valid Samples	16	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	
Minimum	0.0066	Minimum of Log Data	-5.021
Maximum	0.0188	Maximum of Log Data	-3.974
Mean	0.0083	Mean of log Data	-4.828
Median	0.0073	SD of log Data	0.26
SD	0.0029		
Coefficient of Variation	0.357		
Skewness	3.264		
F	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.566	Shapiro Wilk Test Statistic	0.69
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	**************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0096	95% H-UCL	0.00
95% UCLs (Adjusted for Skewness)	0.0030	95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0102	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0097	99% Chebyshev (MVUE) UCL	0.01
			. A copie con el parte de contrata en civil
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	10.55	Data do not follow a Discernable Distribution (0.05	)
Theta Star	1		
nu star	337.5		~~~~~~
Approximate Chi Square Value (.05)	295.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.00
Adjusted Chi Square Value	291.5	95% Jackknife UCL	0.00
A. L	4 700	95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	1.783	95% Bootstrap-t UCL	0.01
Anderson-Darling 5% Critical Value	0.738	95% Hall's Bootstrap UCL	0.01
Kolmogorov-Smirnov Test Statistic	0.24	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Le	evel .	95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	0.01 0.01
A Distribution			
Assuming Gamma Distribution	0.0004	99% Chebyshev(Mean, Sd) UCL	0.01
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0094 0.0096		
Potential UCL to Use		Use 95% Student's-t UCL	0.00
		or 95% Modified-t UCL	0.00
ılt or 1/2 SDL (3,3'-dichlorobenzidine)			
			***************************************

	Log transformed Statistics	
0.0203		-3.53
	- 1	-1.89
		-3.312
<b></b>		0.4
<u> </u>		
1		
Relevant UO		
·y·····		entre estimatoria i beneva processo que es
<b>!</b>	· ·	0.541
0.887		0.887
	Data not Lognormal at 5% Significance Level	
	Assuming Lognormal Distribution	6. creditive amaliëra i ters das ved Hels sektr
0.0538	95% H-UCL	0.048
S	95% Chebyshev (MVUE) UCL	0.056
0.0607	97.5% Chebyshev (MVUE) UCL	0.064
0.055	99% Chebyshev (MVUE) UCL	0.079
	Doto Distribution	
2 705		=1
]	_	"
		P
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		0.053
94.23		0.053
		0.052
[		0.108
1	·	0.097
1		0.055
1		0.062
evel		0.073
		0.087
	99% Chebyshev(Mean, Sd) UCL	0.115
1		
0.0524		
	Use 95% Student's-t UCL	0.053
	or 95% Modified-t UCL	0.055
	or 95% Modified-t UCL	0.05
General 9	Statistics	
17	Number of Unique Samples	15
	Log-transformed Statistics	lthe Western Strategrand con
8.8500E-5	Minimum of Log Data	-9.333
	(viiiniiuiii oi Lod Dala)	0,000
0.0033	Maximum of Log Data	-5.708
	0.151 0.0408 0.0316 0.0297 0.729 3.845  Relevant U6 0.396 0.887  0.0607 0.055  3.785 0.0108 121.1 96.71 0.0335 94.23  3.16 0.742 0.345 0.216 evel  General S 17	0.151

			Taras III
Median	1.0250E-4	SD of log Data	1.086
SD	7.9620E-4		
Coefficient of Variation	1.937		
Skewness	3.45		Language and a control of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
	J	l	
Normal Distribution Test	Relevant UC	CL Statistics  Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.467	Shapiro Wilk Test Statistic	0.714
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0.892
Data not Normal at 5% Significance Level	0,092	Data not Lognormal at 5% Significance Level	0.032
Assuming Normal Distribution	17 4047E 4	Assuming Lognormal Distribution	7.07015
95% Student's-t UCL	/.481/ <b>∟</b> -4	95% H-UCL	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	
95% Adjusted-CLT UCL	1	97.5% Chebyshev (MVUE) UCL	
95% Modified-t UCL	7.7510E-4	99% Chebyshev (MVUE) UCL	0.001
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.648	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	6.3401E-4		
nu star	22.04		
Approximate Chi Square Value (.05)	12.37	Nonparametric Statistics	
Adjusted Level of Significance	0.0346	95% CLT UCL	7.2866E-4
Adjusted Chi Square Value	11.61	95% Jackknife UCL	7.4817E-4
		95% Standard Bootstrap UCL	7.1836E-4
Anderson-Darling Test Statistic	2.621	95% Bootstrap-t UCL	0.001
Anderson-Darling 5% Critical Value	0.777	95% Hall's Bootstrap UCL	0.001
Kolmogorov-Smirnov Test Statistic	0.375	95% Percentile Bootstrap UCL	7.5694E-4
Kolmogorov-Smirnov 5% Critical Value	0.217	95% BCA Bootstrap UCL	9.4576E-4
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.001
		97.5% Chebyshev(Mean, Sd) UCL	0.001
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.002
95% Approximate Gamma UCL	7.3242E-4		**************************************
95% Adjusted Gamma UCL	7.8005E-4		(1886) - 1 km, m, m, 10 p, m, 10 p,
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.002
Result or 1/2 SDL (4,6-dinitro-2-methylphenol)			
	0	Obstables	
Number of Valid Samples	General S	Statistics Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	Later and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco
Minimum	0.0123	Minimum of Log Data	-4.402
Maximum	0.0627	Maximum of Log Data	-2.769
Mean	0.017	Mean of log Data	-4.186
Median	0.017	SD of log Data	0.399
SD	0.0132	or or reg para	
Coefficient of Variation	0.725		
Skewness	3.843		

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	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.542
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0224	95% H-UCL	0,020
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.023
95% Adjusted-CLT UCL	0.0252	97.5% Chebyshev (MVUE) UCL	0.026
95% Modified-t UCL	0.0229	99% Chebyshev (MVUE) UCL	0.033
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	3.812	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.0044		
nu star	122	,	-Horning and an income
Approximate Chi Square Value (.05)	97.49	Nonparametric Statistics	nomewnellstestestes
Adjusted Level of Significance	0.0335	95% CLT UCL	0.022
Adjusted Chi Square Value	95	95% Jackknife UCL	0.022
Adjusted of oquate value		95% Standard Bootstrap UCL	0.022
Anderson-Darling Test Statistic	3.154	95% Bootstrap-t UCL	0.044
Anderson-Darling 5% Critical Value	0.742	95% Hall's Bootstrap UCL	0.040
Kolmogorov-Smirnov Test Statistic	0.742	95% Percentile Bootstrap UCL	0.040
_		-	0.023
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	
Data not Gamma Distributed at 5% Significance L	evei	95% Chebyshev(Mean, Sd) UCL	0.030
		97.5% Chebyshev(Mean, Sd) UCL	0.036
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.047
95% Approximate Gamma UCL	0.0213		
95% Adjusted Gamma UCL	0.0218		
Potential UCL to Use		Use 95% Student's-t UCL	0.022
	***************************************	or 95% Modified-t UCL	0.022
esult or 1/2 SDL (acenaphthene)			
	General S	Statistics	
Number of Valid Samples	16	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	terapy transfer referring ministra
Minimum	0.0061	Minimum of Log Data	-5.099
Maximum	0.0631	Maximum of Log Data	-2.763
Mean	0.0031	Mean of log Data	-4.757
Median	0.0110	SD of log Data	0.628
SD.	0.0067	OD 01 10g Data	0.020
Coefficient of Variation	1.248		·
Skewness	3.498		
	Relevant UC	N. Statistics	
	nelevant UC		
Normal Distribution Test	0.400	Lognormal Distribution Test	A F0
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.58
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887

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Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	0.0179	95% H-UCL	0.014
95% UCLs (Adjusted for Skewness)	0.0179	95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0208	97.5% Chebyshev (MVUE) UCL	0.020
95% Modified-t UCL	0.0208	99% Chebyshev (MVUE) UCL	0.02
33% Woulineuri OCL	0.0164	33 % Chebyshev (MVOL) OCL	0.02
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.535	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0075		. 11.11.01001111.0111.1011111
nu star	49.11		
Approximate Chi Square Value (.05)	34.02	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.01
Adjusted Chi Square Value	32.6	95% Jackknife UCL	0.01
THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O		95% Standard Bootstrap UCL	0.01
Anderson-Darling Test Statistic	3.332	95% Bootstrap-t UCL	0.08
Anderson-Darling 5% Critical Value	0.752	95% Hall's Bootstrap UCL	0.04
Kolmogorov-Smirnov Test Statistic	0.415	95% Percentile Bootstrap UCL	0.01
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	0.02
Data not Gamma Distributed at 5% Significance L		95% Chebyshev(Mean, Sd) UCL	0.02
		97.5% Chebyshev(Mean, Sd) UCL	0.034
Assuming Gamma Distribution	L	99% Chebyshev(Mean, Sd) UCL	0.04
95% Approximate Gamma UCL	0.0167	3370 CiteBySileV(Wealif, Gd) CGE	0.01
95% Adjusted Gamma UCL	0.0107		
93 % Adjusted Gamma OCL	0.0174		linksjormfokrethfokretemist
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.027
esult or 1/2 SDL (aluminum)			
		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
	General Sta	atistics	
Number of Valid Samples	General Sta	ntistics Number of Unique Samples	16
Number of Valid Samples  Raw Statistics		Number of Unique Samples	16
			16
Raw Statistics Minimum	16	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	8.269
Raw Statistics Minimum Maximum	3900 12500	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	8.269 9.433
Raw Statistics Minimum Maximum Mean	3900 12500 6854	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	8.269 9.433 8.78
Raw Statistics  Minimum  Maximum  Mean  Median	3900 12500 6854 6345	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	8.269 9.433
Raw Statistics  Minimum  Maximum  Mean  Median  SD	3900 12500 6854 6345 2346	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	8.26 9.43 8.78
Raw Statistics  Minimum  Maximum  Mean  Median	3900 12500 6854 6345	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	8.26 9.43 8.78
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	3900 12500 6854 6345 2346 0.342 0.876	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	8.26 9.43 8.78
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	3900 12500 6854 6345 2346 0.342	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	8.26 9.43 8.78
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test	3900 12500 6854 6345 2346 0.342 0.876	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	8.26 9.43 8.78 0.33
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	3900 12500 6854 6345 2346 0.342 0.876	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	8.26 9.43 8.78 0.33
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	3900 12500 6854 6345 2346 0.342 0.876 Relevant UCL \$	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	8.26 9.43 8.78 0.33
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	3900 12500 6854 6345 2346 0.342 0.876 Relevant UCL \$	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	8.26 9.43 8.78 0.33
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	3900 12500 6854 6345 2346 0.342 0.876 Relevant UCL \$	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	8.26 9.43 8.78 0.33
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level	3900 12500 6854 6345 2346 0.342 0.876 Relevant UCL \$	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution	8.26 9.43 8.78

			1. Hall 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
95% Adjusted-CLT UCL	7956	97.5% Chebyshev (MVUE) UCL	10434
95% Modified-t UCL	7904	99% Chebyshev (MVUE) UCL	12562
Gamma Distribution Test		Data Distribution	1571-1541-1541-1541-1541-1541-1541-1541-
k star (bias corrected)	7.977	Data appear Normal at 5% Significance Level	
Theta Star	859 <i>.</i> 3		
nu star	255.3		
Approximate Chi Square Value (.05)	219.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	7819
Adjusted Chi Square Value	215.5	95% Jackknife UCL	7882
		95% Standard Bootstrap UCL	7774
Anderson-Darling Test Statistic	0.237	95% Bootstrap-t UCL	8066
Anderson-Darling 5% Critical Value	0.739	95% Hall's Bootstrap UCL	8093
Kolmogorov-Smirnov Test Statistic	0.116	95% Percentile Bootstrap UCL	7798
Kolmogorov-Smirnov 5% Critical Value	0,215	95% BCA Bootstrap UCL	7883
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	9411
		97.5% Chebyshev(Mean, Sd) UCL	10517
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	12689
95% Approximate Gamma UCL	7980		
95% Adjusted Gamma UCL	8120		
Potential UCL to Use		Use 95% Student's-t UCL	7882
sult or 1/2 SDL (anthracene)	General S	Statistics	
sult or 1/2 SDL (anthracene)  Number of Valid Samples	General S	Statistics  Number of Unique Samples	15
		Number of Unique Samples	15
Number of Valid Samples Raw Statistics			
Number of Valid Samples  Raw Statistics  Minimum	0.0067	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-5.006
Number of Valid Samples Raw Statistics	0.0067 0.0753	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.006 -2.586
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0067 0.0753 0.0201	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.006 -2.586 -4.283
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0067 0.0753	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.006 -2.586 -4.283
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0067 0.0753 0.0201 0.0089	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.006 -2.586 -4.283
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0067 0.0753 0.0201 0.0089 0.0205	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.006 -2.586 -4.283
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.006 -2.586 -4.283
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.006 -2.586 -4.283 0.83
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.006 -2.586 -4.283
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-5.006 -2.586 -4.283 0.83
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.006 -2.586 -4.283 0.83
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data	-5.006 -2.586 -4.283 0.83
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-5.006 -2.586 -4.283 0.83 0.80 0.80
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data	-5.006 -2.586 -4.283 0.83 0.80 0.80
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data	-5.006 -2.586 -4.283 0.83 0.80 0.80 0.03
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data	-5.006 -2.586 -4.283 0.83 0.80 0.80 0.03 0.03
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0067 0.0753 0.0201 0.0089 0.0205 1.017 1.776 Relevant UC 0.711 0.887	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.006 -2.586 -4.283 0.83

and a comment party of the extra soft statement, and term is and accompanied to the extra soft soft and accompanied to the extra soft statement and accompanied to the extra soft soft soft accompanied to the extra soft soft soft soft soft soft soft soft	Lutari antarenseri	and the first them the term of the second and the figure of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	(0),561010101 <b>00</b> 00000
Theta Star	0.0162		
nu star	39.69		
Approximate Chi Square Value (.05)	26.26	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.028
Adjusted Chi Square Value	25.02	95% Jackknife UCL	0.029
		95% Standard Bootstrap UCL	0.028
Anderson-Darling Test Statistic	1.546	95% Bootstrap-t UCL	0.036
Anderson-Darling 5% Critical Value	0.755	95% Hall's Bootstrap UCL	0.033
Kolmogorov-Smirnov Test Statistic	0.323	95% Percentile Bootstrap UCL	0.028
Kolmogorov-Smirnov 5% Critical Value	0.219	95% BCA Bootstrap UCL	0.03
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	0.042
		97.5% Chebyshev(Mean, Sd) UCL	0.052
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.07
95% Approximate Gamma UCL	0.0304		
95% Adjusted Gamma UCL	0.0319		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.042
sult or 1/2 SDL (antimony)			
	General S	tatistics	NEW PROPERTY AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS OF THE PERSON AND LOSS
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	0.74	Minimum of Log Data	-0.301
Maximum	8.14	Maximum of Log Data	2.09
Mean	2.245	Mean of log Data	0.62
Median	1.75	SD of log Data	0.57
SD	1.751		
Coefficient of Variation	0.78		
Skewness	2.813		
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Relevant UCI	L Statistics	www.w.w.
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.675	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	3.012	95% H-UCL	3.02
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	3.59
95% Adjusted-CLT UCL	3.294	97.5% Chebyshev (MVUE) UCL	4.20
95% Modified-t UCL	3.064	99% Chebyshev (MVUE) UCL	5.39
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.429	Data appear Gamma Distributed at 5% Significance L	.evel
Theta Star	0.924		
nu star	77.73		***************************************
Approximate Chi Square Value (.05)	58.42	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	2.96
Adjusted Chi Square Value	56.52	95% Jackknife UCL	3.012

	In upo massa sesta	 	Take goldgeretens
		95% Standard Bootstrap UCL	2.935
Anderson-Darling Test Statistic	0.73	95% Standard Bootstrap UCL	3.9
Anderson-Darling 19st Statistic	į	95% Hall's Bootstrap UCL	5.856
Kolmogorov-Smirnov Test Statistic	į.	· · · · · · · · · · · · · · · · · · ·	
	}	95% Percentile Bootstrap UCL	3.061
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	3.384
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	4.153
		97.5% Chebyshev(Mean, Sd) UCL	4.979
Assuming Gamma Distribution	·	99% Chebyshev(Mean, Sd) UCL	6.601
95% Approximate Gamma UCL	ļ		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
95% Adjusted Gamma UCL	3.088		
Potential UCL to Use		Use 95% Approximate Gamma UCL	2.987
Result or 1/2 SDL (arsenic)			
		Statistics	
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	rangu sagaran manaran dan me
Minimum	2.41	Minimum of Log Data	0.88
Maximum	7.62	Maximum of Log Data	2.031
Mean	4.026	Mean of log Data	1.341
Median	3.805	SD of log Data	0.327
. SD	1.4		
Coefficient of Variation	0.348		910-11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Skewness	1.175		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Dolovent IV	CL Statistics	halaman kalangan kalangan kalangan persangan persangan persangan persangan persangan persangan persangan persa
and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	Relevant Ut	Lognormal Distribution Test	
Normal Distribution Test	0.002		0.957
Shapiro Wilk Test Statistic	<b>[</b>	Shapiro Wilk Test Statistic	
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0.887
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	4.64	95% H-UCL	4.732
95% UCLs (Adjusted for Skewness)	L	95% Chebyshev (MVUE) UCL	5.471
95% Adjusted-CLT UCL	4.712	97.5% Chebyshev (MVUE) UCL	6.099
95% Modified-t UCL	4.657	99% Chebyshev (MVUE) UCL	7.332
Gamma Distribution Test		Data Distribution	·
k star (bias corrected)	8.049	Data appear Normal at 5% Significance Level	ad question and the Period Co. or the become
Theta Star	0.5		24 hr 1 had all and 1 MAT AND A SHOWN IN 1971 age
nu star	257.6		
Approximate Chi Square Value (.05)	237.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	4.602
Adjusted Level of Significance  Adjusted Chi Square Value	217.6	95% Jackknife UCL	4.602
Aujusted Cni Square Value	Z1/.0		4.54
Andones Dade Trates of the	0010	95% Standard Bootstrap UCL	
Anderson-Darling Test Statistic	0.318	95% Bootstrap-t UCL	4.811
Anderson-Darling 5% Critical Value	0.739	95% Hall's Bootstrap UCL	4.939
Kolmogorov-Smirnov Test Statistic	0.15	95% Percentile Bootstrap UCL	4.618
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	4.696

		en en en en en en en en en en en en en e	- 1 100 C 150
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	5,552
		97.5% Chebyshev(Mean, Sd) UCL	6.21
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	7.50
95% Approximate Gamma UCL	4.684	Construction of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c	7.00
95% Adjusted Gamma UCL	4.766		
30 % Adjusted Gailling OCL	4.700		
Potential UCL to Use		Use 95% Student's-t UCL	4.64
Result or 1/2 SDL (atrazine (aatrex))			
	General S	Statistics	
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	0.012	Minimum of Log Data	-4.423
Maximum	0.0814	Maximum of Log Data	-2.508
Mean	0.0179	Mean of log Data	-4.189
Median	0.0129	SD of log Data	0.46
SD	0.017		
Coefficient of Variation	0.951		·** 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Skewness	3.921		Mark Market and Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Specia
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.359	Shapiro Wilk Test Statistic	0.50
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	, ef a baltica con man basting na man the
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0254	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.02
95% Adjusted-CLT UCL	0.0294	97.5% Chebyshev (MVUE) UCL	0.02
95% Modified-t UCL	0.0261	99% Chebyshev (MVUE) UCL	0.03
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.613	Data do not follow a Discernable Distribution (0.05	ō)
Theta Star	0.0068		
nu star	83.62		,
Approximate Chi Square Value (.05)	63.55	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.02
Adjusted Chi Square Value	61.56	95% Jackknife UCL	0.02
		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	3.587	95% Bootstrap-t UCL	0.06
Anderson-Darling 5% Critical Value	0.744	95% Hall's Bootstrap UCL	0.05
Kolmogorov-Smirnov Test Statistic	0.387	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.217	95% BCA Bootstrap UCL	0.03
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.03
		97.5% Chebyshev(Mean, Sd) UCL	0.04
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.06
95% Approximate Gamma UCL	0.0236	,,,,	
95% Adjusted Gamma UCL	0.0243		
2077, ajaotoa Gamma OOL	0.02.70		

Potential UCL to Use	<u> </u>	Use 95% Student's-t UCL	0.025
		or 95% Modified-t UCL	0.026
uit or 1/2 SDL (barium)			
	General S	tatistics	
Number of Valid Samples	16	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	
Minimum	116	Minimum of Log Data	4.75
Maximum	377	Maximum of Log Data	5.93
Mean	215.3	Mean of log Data	5.33
Median	198	SD of log Data	0.26
SD	59.65		
Coefficient of Variation	0.277		·/n
Skewness	1.296		636-69-69-69-69-69-69-69-69-69-69-69-69-69
			-(6
F	Relevant UCI		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.887	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	1
Assuming Normal Distribution		Assuming Lognormal Distribution	anni anni anni anni anni anni anni anni
95% Student's-t UCL	241.4	95% H-UCL	244.4
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	277.3
95% Adjusted-CLT UCL	244.9	97.5% Chebyshev (MVUE) UCL	304.2
95% Modified-t UCL	242.2	99% Chebyshev (MVUE) UCL	357.1
Gamma Distribution Test	o constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of the constant of	Data Distribution	n system system of the description
k star (bias corrected)	12.47	Data appear Gamma Distributed at 5% Significance	Level
Theta Star	17.27		
nu star	398.9		
Approximate Chi Square Value (.05)	353.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	239.8
Adjusted Chi Square Value	348.8	95% Jackknife UCL	241.4
		95% Standard Bootstrap UCL	239.4
Anderson-Darling Test Statistic	0.562	95% Bootstrap-t UCL	250.3
Anderson-Darling 5% Critical Value	0.738	95% Hall's Bootstrap UCL	261.9
Kolmogorov-Smirnov Test Statistic	0.17	95% Percentile Bootstrap UCL	240
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	244.2
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	280.3
		97.5% Chebyshev(Mean, Sd) UCL	308.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	363.6
	242.8		
95% Approximate Gamma UCL	······		
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	246.2		

Maximum       0.395       Maximum         Mean       0.0454       Mea         Median       0.0069       SI         SD       0.103         Coefficient of Variation       2.258         Skewness       3.108             Relevant UCL Statistics         Normal Distribution Test       Lognormal Distribution Test         Shapiro Wilk Test Statistic       0.454       Shapiro Wilk Shapiro Wilk Shapiro Wilk Centrical Value       0.887       Shapiro Wilk Centrical Value         Data not Normal at 5% Significance Level       Data not Lognormal at 5% Significance Level       Data not Lognormal Distribution	tics n of Log Data n of Log Data n of log Data D of log Data Test Test Statistic Critical Value	-5.075 -0.929 -4.365 1.321
Raw Statistics   Log-transformed Statist   Minimum   0.0062   Minimum   Maximum   0.395   Maximum   Mean   0.0454   Mea   Median   0.0069   Statistics   SD   0.103   Coefficient of Variation   2.258   Skewness   3.108     Shapiro Wilk Test Statistic   0.454   Shapiro Wilk Test Statistic   0.454   Shapiro Wilk Test Statistic   Shapiro Wilk Citical Value   0.887   Shapiro Wilk Citical Value   Data not Normal at 5% Significance Level   Data not Lognormal at 5% Significance Level   Data not Lognormal Distribution   Assuming Normal Distribution   95% Student's-t UCL   0.0904   95% UCLs (Adjusted for Skewness)   95% Chebyshev (95% Adjusted-CLT UCL   0.109   97.5% Chebyshev (95% Adjusted-CLT UCL	tics n of Log Data n of Log Data n of log Data D of log Data Test Test Statistic Critical Value	-5.075 -0.929 -4.365 1.321
Minimum         0.0062         Minimum           Maximum         0.395         Maximum           Mean         0.0454         Mea           Median         0.0069         SI           SD         0.103         SI           Coefficient of Variation         2.258           Skewness         3.108           Relevant UCL Statistics           Normal Distribution Test         Lognormal Distribution Test           Shapiro Wilk Test Statistic         0.454         Shapiro Wilk Test Shapiro Wilk Chitical Value           Shapiro Wilk Critical Value         0.887         Shapiro Wilk Chitical Value           Data not Normal at 5% Significance Level         Data not Lognormal at 5% Significance Level           Assuming Normal Distribution         Assuming Lognormal Distribution           95% Student's-t UCL         0.0904           95% UCLs (Adjusted for Skewness)         95% Chebyshev (           95% Adjusted-CLT UCL         0.109           97.5% Chebyshev (	n of Log Data n of Log Data n of log Data D of log Data  Fest Test Statistic Critical Value	-0.929 -4.365 1.32
Minimum         0.0062         Minimum           Maximum         0.395         Maximum           Mean         0.0454         Mea           Median         0.0069         SI           SD         0.103         SI           Coefficient of Variation         2.258           Skewness         3.108           Relevant UCL Statistics           Normal Distribution Test         Lognormal Distribution Test           Shapiro Wilk Test Statistic         0.454         Shapiro Wilk Test Shapiro Wilk Central Value           Shapiro Wilk Critical Value         0.887         Shapiro Wilk Central Value           Data not Normal at 5% Significance Level         Data not Lognormal at 5% Significance Level           Assuming Normal Distribution         Assuming Lognormal Distribution           95% Student's-t UCL         0.0904           95% UCLs (Adjusted for Skewness)         95% Chebyshev (95% Chebyshev)	n of Log Data n of Log Data n of log Data D of log Data  Fest Test Statistic Critical Value	-0.929 -4.365 1.321
Mean         0.0454         Mean           Median         0.0069         SI           SD         0.103           Coefficient of Variation         2.258           Skewness         3.108           Relevant UCL Statistics           Normal Distribution Test         Lognormal Distribution Test           Shapiro Wilk Test Statistic         0.454         Shapiro Wilk Cest Shapiro Wilk Cested Tested           Shapiro Wilk Critical Value         0.887         Shapiro Wilk Cested Tested Te	on of log Data D of log Data Fest Test Statistic Critical Value	-4.365 1.321 0.591
Median 0.0069 SI SD 0.103 Coefficient of Variation 2.258 Skewness 3.108  Relevant UCL Statistics  Normal Distribution Test Lognormal Distribution T Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Critical Value 0.887 Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Data not Lognormal Distribution  Assuming Normal Distribution Assuming Lognormal Distribution 95% Student's-t UCL 0.0904 95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (	D of log Data  Fest Test Statistic Critical Value	0.591
Coefficient of Variation 2.258 Skewness 3.108  Relevant UCL Statistics  Normal Distribution Test Lognormal Distribution Test Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Shapiro Wilk Critical Value 0.887 Shapiro Wilk Onata not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Data not Lognormal Distribution Assuming Normal Distribution Assuming Lognormal Distribution 95% Student's-t UCL 0.0904  95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (	Fest Test Statistic Critical Value	0.591
Coefficient of Variation   2.258   Skewness   3.108    Relevant UCL Statistics  Normal Distribution Test   Lognormal Distribution Test   Shapiro Wilk Test Statistic   0.454   Shapiro Wilk Test Statistic   0.887   Shapiro Wilk Test Statistic   Data not Lognormal at 5% Significance Level   Data not Lognormal at 5% Significance   Data not Lognormal District   0.888   Data no	Test Statistic Critical Value	
Relevant UCL Statistics  Normal Distribution Test Shapiro Wilk Test Statistic O.454 Shapiro Wilk Critical Value O.887 Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Assuming Normal Distribution Assuming Lognormal Distri 95% Student's-t UCL O.0904 95% UCLs (Adjusted for Skewness) 95% Chebyshev (	Test Statistic Critical Value	
Relevant UCL Statistics  Normal Distribution Test Lognormal Distribution T Shapiro Wilk Test Statistic 0.454 Shapiro Wilk C Shapiro Wilk Critical Value 0.887 Shapiro Wilk C Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level Data not Lognormal Distribution Assuming Normal Distribution Assuming Lognormal Distribution 95% Student's-t UCL 0.0904  95% UCLs (Adjusted for Skewness) 95% Chebyshev (95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (	Test Statistic Critical Value	
Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  O.887  Data not Normal at 5% Significance Level  Data not Lognormal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Chebyshev (  95% Adjusted-CLT UCL  O.109	Test Statistic Critical Value	
Normal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value O.887  Data not Normal at 5% Significance Level  Data not Lognormal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Chebyshev ( 95% Adjusted-CLT UCL 0.109  Lognormal Distribution Assuming Lognormal Distri	Test Statistic Critical Value	
Shapiro Wilk Test Statistic 0.454 Shapiro Wilk Chapiro Wi	Test Statistic Critical Value	
Shapiro Wilk Critical Value 0.887 Shapiro Wilk C Data not Normal at 5% Significance Level Data not Lognormal Distribution P5% Student's-t UCL D.0.0904 P5% UCLs (Adjusted for Skewness) P5% Chebyshev (D.0.0904 D.0.0904 P5% Adjusted-CLT UCL D.0.0904 P5% Adjusted-CLT UCL D.0.0904 P5% Chebyshev (D.0.0904 D.0.0904 P5% Adjusted-CLT UCL D.0.0904 P5% Chebyshev (D.0.0904 D.0.0904 P5% Adjusted-CLT UCL D.0.0904 P5% Chebyshev (D.0.0904 D.0.0904 D.0.0904 P5% Adjusted-CLT UCL D.0.0904 P5% Chebyshev (D.0.0904 D.0.0904  Critical Value		
Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  0.109  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% Chebyshev (		0.887
Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  0.109  97.5% Chebyshev (	<del></del>	0.007
95% Student's-t UCL       0.0904         95% UCLs (Adjusted for Skewness)       95% Chebyshev (         95% Adjusted-CLT UCL       0.109       97.5% Chebyshev (		
95% UCLs (Adjusted for Skewness) 95% Chebyshev ( 95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (	ibution	
95% Adjusted-CLT UCL 0.109 97.5% Chebyshev (	95% H-UCL	0.092
	(MVUE) UCL	0.073
95% Modified-t UCL 0.0937 99% Chebyshev (	(MVUE) UCL	0.093
•	MVUE) UCL	0.132
Gamma Distribution Test Data Distribution	#*************************************	
k star (bias corrected) 0.447 Data do not follow a Discernable Dis	stribution (0.05	5)
Theta Star 0.102		~
nu star 14.31	Arministra sum serim dem visit serim serim serim serim serim serim serim serim serim serim serim serim serim s	
Approximate Chi Square Value (.05) 6.785 Nonparametric Statistic	CS	***************************************
	5% CLT UCL	0.087
	ckknife UCL	0.090
95% Standard Bo	ootstrap UCL	0.086
	otstrap-t UCL	0.28
Anderson-Darling 5% Critical Value 0.797 95% Hall's Bo	ootstrap UCL	0.328
Kolmogorov-Smirnov Test Statistic 0.468 95% Percentile Bo	ootstrap UCL	0.090
Kolmogorov-Smirnov 5% Critical Value 0.227 95% BCA Bo	ootstrap UCL	0.118
Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Me	an, Sd) UCL	0.157
97.5% Chebyshev(Me	an, Sd) UCL	0.206
Assuming Gamma Distribution 99% Chebyshev(Me	an, Sd) UCL	0.301
95% Approximate Gamma UCL 0.0958		
95% Adjusted Gamma UCL 0.105		
Potential UCL to Use Use 99% Chebyshev (Me	an, Sd) UCL	0.301
sult or 1/2 SDL (benzo(a)pyrene)		
N	ATTACA STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF TH	
General Statistics	COMMITTEE TO THE MENT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE P	
Number of Valid Samples 16 Number of Uniq	ue Samples	15

Raw Statistics		Log-transformed Statistics	
Minimum	0.0062	Minimum of Log Data	-5.083
Maximum	0.445	Maximum of Log Data	-0.81
Mean	0.0661	Mean of log Data	-3.88
Median	0.0078	SD of log Data	1.52
SD	0.115		
Coefficient of Variation	1.737		
Skewness	2.722		
	elevant UC	I Chatintina	
Normal Distribution Test	elevant oc	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.598	Shapiro Wilk Test Statistic	0.764
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.70
Data not Normal at 5% Significance Level	0.007	Data not Lognormal at 5% Significance Level	0.00
Data not normal at 5% Significance Level		Data not cognomia at 5% significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.116	95% H-UCL	0.27
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.168
95% Adjusted-CLT UCL	0.134	97.5% Chebyshev (MVUE) UCL	0.215
95% Modified-t UCL	0.12	99% Chebyshev (MVUE) UCL	0.309
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.48	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.138		
nu star	15.36		
Approximate Chi Square Value (.05)	7.512	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.113
Adjusted Chi Square Value	6.895	95% Jackknife UCL	0.116
		95% Standard Bootstrap UCL	0.113
Anderson-Darling Test Statistic	1.831	95% Bootstrap-t UCL	0.184
Anderson-Darling 5% Critical Value	0.793	95% Hall's Bootstrap UCL	0.279
Kolmogorov-Smirnov Test Statistic	0.36	95% Percentile Bootstrap UCL	0.117
Kolmogorov-Smirnov 5% Critical Value	0.227	95% BCA Bootstrap UCL	0.14
Data not Gamma Distributed at 5% Significance Lev	1	95% Chebyshev(Mean, Sd) UCL	0.19
		97.5% Chebyshev(Mean, Sd) UCL	0.24
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.352
95% Approximate Gamma UCL	0.135		
95% Adjusted Gamma UCL	0.147		11111111111111111111111111111111111111
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.352
Potential UCL to Use			0.352
Number of Valid Samples	General S	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	0.0043	Minimum of Log Data	-5.443
Maximum	0.611	Maximum of Log Data	-0.493
			-3.526
Mean	0.1	Mean of log Data	-ي.پ∠∪

New Trans.	gagjagagaassaate	Process of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro	Acceptant of a
SDI	0.157		
Coefficient of Variation	1.565		······
Skewness	2.573		-
	Relevant UCI		
Normal Distribution Test	0.00	Lognormal Distribution Test	
Shapiro Wilk Cestion Melico	0.66	Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.8
Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.887	Data not Lognormal at 5% Significance Level	0.8
Data not roomal at 0% diginicalice Level		Data not cognomia at 0 % organicarico covor	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.169	95% H-UCL	0.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.3
95% Adjusted-CLT UCL	0.192	97.5% Chebyshev (MVUE) UCL	0.4
95% Modified-t UCL	0.173	99% Chebyshev (MVUE) UCL	0.6
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.461	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.218		
nu star	14.74	N	
Adjusted Lougl of Similiary	7.082	Nonparametric Statistics 95% CLT UCL	0.1
Adjusted Level of Significance Adjusted Chi Square Value	0.0335 6.485	95% Jackknife UCL	0.1
Adjusted Citi Square value	0.400	95% Standard Bootstrap UCL	0.1
Anderson-Darling Test Statistic	0.881	95% Bootstrap-t UCL	0.1
Anderson-Darling 5% Critical Value	0.795	95% Hall's Bootstrap UCL	0.4
Kolmogorov-Smirnov Test Statistic	0.25	95% Percentile Bootstrap UCL	0.1
Kolmogorov-Smirnov 5% Critical Value	0.227	95% BCA Bootstrap UCL	0.1
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.2
		97.5% Chebyshev(Mean, Sd) UCL	0.3
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.4
95% Approximate Gamma UCL	0.209		
95% Adjusted Gamma UCL	0.228		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.4
ılt or 1/2 SDL (benzo(g,h,i)perylene)			
	General St	atistics	ta ran a va
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	0.0062	Minimum of Log Data	-5.08
Maximum	0.442	Maximum of Log Data	-0.81
Mean	0.0661	Mean of log Data	-3.85
Median	0.0086	SD of log Data	1.4
SD	0.117		
Coefficient of Variation	1.766		
Skewness	2.643		

		NA SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SEC	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.594	Shapiro Wilk Test Statistic	0.80
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.117	95% H-UCL	0.244
95% UCLs (Adjusted for Skewness)	***************************************	95% Chebyshev (MVUE) UCL	0.161
95% Adjusted-CLT UCL	0.135	97.5% Chebyshev (MVUE) UCL	0.206
95% Modified-t UCL	0.121	99% Chebyshev (MVUE) UCL	0.294
Gamma Distribution Test	***************************************	Data Distribution	
k star (bias corrected)	0.49	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.135		
nu star	15.66		
Approximate Chi Square Value (.05)	7.726	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.114
Adjusted Chi Square Value	7.099	95% Jackknife UCL	0.117
		95% Standard Bootstrap UCL	0.112
Anderson-Darling Test Statistic	1.602	95% Bootstrap-t UCL	0.217
Anderson-Darling 5% Critical Value	0.792	95% Hall's Bootstrap UCL	0.304
Kolmogorov-Smirnov Test Statistic	0.303	95% Percentile Bootstrap UCL	0.117
Kolmogorov-Smirnov 5% Critical Value	0.226	95% BCA Bootstrap UCL	0.142
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.193
		97.5% Chebyshev(Mean, Sd) UCL	0.248
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.357
95% Approximate Gamma UCL	0.134		
95% Adjusted Gamma UCL	0.146		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.357
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		
It or 1/2 SDL (benzo(k)fluoranthene)			
lt or 1/2 SDL (benzo(k)fluoranthene)	General Stati	stics	
It or 1/2 SDL (benzo(k)fluoranthene)  Number of Valid Samples	General Stati	stics  Number of Unique Samples	15
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	16	Number of Unique Samples  Log-transformed Statistics	15
Number of Valid Samples  Raw Statistics  Minimum	0.0095	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	15
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0095 0.318	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	15 -4.651 -1.146 -3.644
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0095 0.318 0.0589	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	15 -4.651 -1.146 -3.644
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.0095 0.318 0.0589 0.0122	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	15 -4.651 -1.146 -3.644
Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0095 0.318 0.0589 0.0122 0.0853	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	15 -4.651 -1.146 -3.644
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0095 0.318 0.0589 0.0122 0.0853 1.447	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	15 -4.651 -1.146 -3.644
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0095 0.318 0.0589 0.0122 0.0853 1.447 2.204	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	15 -4.651 -1.146 -3.644
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	0.0095 0.318 0.0589 0.0122 0.0853 1.447 2.204	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-4.651 -1.146 -3.644 1.253
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Read  Normal Distribution Test	0.0095 0.318 0.0589 0.0122 0.0853 1.447 2.204	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  tatistics  Lognormal Distribution Test	15 -4.651 -1.146

Assuming Normal Distribution	5 - 8 - 8 - 8 - 1 - 1 - 1 - 1	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0963	95% H-UCL	0.15
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.13
95% Adjusted-CLT UCL	0.107	97.5% Chebyshev (MVUE) UCL	0.1
95% Modified-t UCL	0.0983	99% Chebyshev (MVUE) UCL	0.2
Gamma Distribution Test		Data Distribution	/m % % % pp = = 4 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +
k star (bias corrected)	0.641	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0919		
nu star	20.52		
Approximate Chi Square Value (.05)	11.24	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.0
Adjusted Chi Square Value	10.46	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	1.775	95% Bootstrap-t UCL	0.1
Anderson-Darling 5% Critical Value	0.776	95% Hall's Bootstrap UCL	0.1
Kolmogorov-Smirnov Test Statistic	0.35	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.223	95% BCA Bootstrap UCL	0.1
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.1
		97.5% Chebyshev(Mean, Sd) UCL	0.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.2
95% Approximate Gamma UCL	0.108		
95% Adjusted Gamma UCL	0.116		
		***	
Potential UCL to Use  It or 1/2 SDL (beryllium)		Use 99% Chebyshev (Mean, Sd) UCL	0.2
	General S		0.2
	General S		0.2
ult or 1/2 SDL (beryllium)		tatistics	
Ilt or 1/2 SDL (beryllium)  Number of Valid Samples		tatistics  Number of Unique Samples	12
Number of Valid Samples Raw Statistics	16	tatistics  Number of Unique Samples  Log-transformed Statistics	12
Number of Valid Samples  Raw Statistics  Minimum	0.29	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-1.23 -0.19
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.29	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-1.23 -0.19
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.29 0.82 0.463	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-1.23 -0.19
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.29 0.82 0.463 0.42	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-1.23 -0.19
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.29 0.82 0.463 0.42 0.149	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-1.23 -0.19
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	0.29 0.82 0.463 0.42 0.149 0.322	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-1.23 -0.19
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	0.29 0.82 0.463 0.42 0.149 0.322 0.894	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-1.23 -0.19
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.29 0.82 0.463 0.42 0.149 0.322 0.894	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	0.29 0.82 0.463 0.42 0.149 0.322 0.894	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-1.23 -0.19 -0.81 0.3
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	0.29 0.82 0.463 0.42 0.149 0.322 0.894  Relevant UCL	tatistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-1.23 -0.19 -0.81 0.3
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Raw Statistics  Minimum  Median  SD  Coefficient of Variation  Skewness  Raw Statistics	0.29 0.82 0.463 0.42 0.149 0.322 0.894  Relevant UCL	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-1.23 -0.19 -0.81 0.3
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Raw Statistics  Minimum  Mean  Median  SD  Coefficient of Variation  Skewness	0.29 0.82 0.463 0.42 0.149 0.322 0.894  Relevant UCL	tatistics    Log-transformed Statistics     Minimum of Log Data     Maximum of Log Data     Mean of log Data     SD of log Data     SD of log Data     Lognormal Distribution Test     Shapiro Wilk Test Statistic     Shapiro Wilk Critical Value     Data appear Lognormal at 5% Significance Level	-1.23 -0.19 -0.81 0.3
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Remain Statistics  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution	0.29 0.82 0.463 0.42 0.149 0.322 0.894  Relevant UCI 0.905 0.887	tatistics    Log-transformed Statistics	12 -1.23 -0.19 -0.81 0.3 0.9 0.8
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Raw Statistics  Minimum  Mean  Median  SD  Coefficient of Variation  Skewness  Raw Statistic  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.29 0.82 0.463 0.42 0.149 0.322 0.894  Relevant UCI 0.905 0.887	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-1.23 -0.19 -0.81 0.3

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	9.119	Data appear Normal at 5% Significance Level	
Theta Star	0.0508		······································
nu star	291.8		
Approximate Chi Square Value (.05)	253.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.52
Adjusted Chi Square Value	249.2	95% Jackknife UCL	0.52
		95% Standard Bootstrap UCL	0.52
Anderson-Darling Test Statistic	0.452	95% Bootstrap-t UCL	0.54
Anderson-Darling 5% Critical Value	0.739	95% Hall's Bootstrap UCL	0.54
Kolmogorov-Smirnov Test Statistic	0.161	95% Percentile Bootstrap UCL	0.52
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.53
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.62
		97.5% Chebyshev(Mean, Sd) UCL	0.69
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.83
95% Approximate Gamma UCL	0.534		
95% Adjusted Gamma UCL	0.542		
Potential UCL to Use		Use 95% Student's-t UCL	0.52
Raw Statistics		Log-transformed Statistics	
Minimum	0.675	Minimum of Log Data	-0.393
Maximum	27.2	Maximum of Log Data	3.30
Mean	12.04	Mean of log Data	1.69
Median	13.45	SD of log Data	1.61
SD Coefficient of Veriation	9.92		***************************************
Coefficient of Variation Skewness	0.824 -0.0194		
F	Relevant UCL	Statistics	
Normal Distribution Test	.5.0.4.11.002	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.856	Shapiro Wilk Test Statistic	0.73
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	V	Assuming Lognormal Distribution	denomina de de de de de de de de de de de de de
95% Student's-t UCL	16.39	95% H-UCL	97.34
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	52.5
95% Adjusted-CLT UCL	16.11	97.5% Chebyshev (MVUE) UCL	67.76
95% Modified-t UCL	16.39	99% Chebyshev (MVUE) UCL	97.73
Gamma Distribution Test			
Serial Distribution (Cot	1	Data Distribution	
k star (bias corrected)	0.657	Data Distribution  Data do not follow a Discernable Distribution (0.05)	)
	0.657 18.32		)

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Approximate Chi Square Value (.05)	11.62	Nonparametric Statistics	Antique la Antique de Antique de la constant
Adjusted Level of Significance	0.0335	95% CLT UCL	16.12
Adjusted Chi Square Value	10.83	95% Jackknife UCL	16.39
Adjacta official value of the state of the s	10.00	95% Standard Bootstrap UCL	16.06
Anderson-Darling Test Statistic	1.705	95% Bootstrap-t UCL	16.58
Anderson-Darling 5% Critical Value	0.774	95% Hall's Bootstrap UCL	16.03
Kolmogorov-Smirnov Test Statistic	0.774	95% Percentile Bootstrap UCL	15.89
Kolmogorov-Smirnov 5% Critical Value	0.223	95% BCA Bootstrap UCL	15.84
		95% Chebyshev(Mean, Sd) UCL	22.85
Data not Gamma Distributed at 5% Significance Le	vei	97.5% Chebyshev(Mean, Sd) UCL	
			27.53
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	36.72
95% Approximate Gamma UCL	21.81		
95% Adjusted Gamma UCL	23.4		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	36.72
	ICL exceeds	s the maximum observation	
bult or 1/2 CDI (buttyl box and phytolete)			
sult or 1/2 SDL (butyl benzyl phthalate)			•
	General S		
Number of Valid Samples	16	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	0.0076	Minimum of Log Data	-4.873
Maximum	0.202	Maximum of Log Data	-1.599
Mean	0.0208	Mean of log Data	-4.553
Median	0.0082	SD of log Data	0.798
SD	0.0082	OD OF FOR DUILD	0.750
Coefficient of Variation  Skewness	2.323 3.996		alfra e este con éta fila fest casa partembre fre
			free-content to fever and a feet
	televant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.292	Shapiro Wilk Test Statistic	0.405
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Dietribution			
Assuming Normal Distribution	0.040	Assuming Lognormal Distribution	0.022
95% Student's-t UCL	0.042	95% H-UCL	
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)		95% H-UCL 95% Chebyshev (MVUE) UCL	0.027
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0536	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.023 0.027 0.033
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)		95% H-UCL 95% Chebyshev (MVUE) UCL	0.027 0.033
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0536	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.027 0.033
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.0536	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.027 0.033 0.044
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.0536 0.044	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.02 0.03 0.04
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected)	0.0536 0.044 0.743	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.02 0.03 0.04
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.0536 0.044 0.743 0.028 23.78	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)	0.027 0.033 0.044
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.0536 0.044 0.743 0.028 23.78 13.68	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.027 0.033 0.044
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.0536 0.044 0.743 0.028 23.78	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05) Nonparametric Statistics	0.027 0.033 0.044

Anderson-Darling Test Statistic	4.868	95% Bootstrap-t UCL	0.642
Anderson-Darling 5% Critical Value	0.769	95% Hall's Bootstrap UCL	0.369
Kolmogorov-Smirnov Test Statistic	0.499	95% Percentile Bootstrap UCL	0.044
Kolmogorov-Smirnov 5% Critical Value	0.222	95% BCA Bootstrap UCL	0.057
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.073
		97.5% Chebyshev(Mean, Sd) UCL	0.096
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.030
95% Approximate Gamma UCL	0.0362	55% Chebyshev(Mean, 3d) OCL	0.141
95% Adjusted Gamma UCL	0.0386		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.073
esult or 1/2 SDL (carbazole)			
	General Sta	tistics	
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics	200	Log-transformed Statistics	
Minimum	0.0060	Minimum of Log Data	-5.108
Maximum	0.0861	Maximum of Log Data	-2.452
Mean	0.0151	Mean of log Data	-4.632
Median	0.0069	SD of log Data	0.79
SD	0.0214		
Coefficient of Variation	1.413		
Skewness	2.948		F
		J.	
Normal Distribution Test	elevant UCL	Statistics  Lognormal Distribution Test	umppe un majettel ejectojis bro
Shapiro Wilk Test Statistic	0.49	Shapiro Wilk Test Statistic	0.64
		Shapiro Wilk Critical Value	0.887
Shapiro Wilk Critical Value	0.887		0.007
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	1 (
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0245	95% H-UCL	0.021
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.024
95% Adjusted-CLT UCL	0.0281	97.5% Chebyshev (MVUE) UCL	0.030
95% Modified-t UCL	0.0252	99% Chebyshev (MVUE) UCL	0.040
Gamma Distribution Test		Data Distribution	
	1.076		=1
k star (bias corrected)  Theta Star	0.0141	Data do not follow a Discernable Distribution (0.05	) 
	34.44		
nu star		Nonnaramatria Ctatistica	***************************************
Approximate Chi Square Value (.05)	22.01	Nonparametric Statistics	0 000
Adjusted Level of Significance	0.0335	95% CLT UCL	0.023
Adjusted Chi Square Value	20.89	95% Jackknife UCL	0.024
		95% Standard Bootstrap UCL	0.023
Anderson-Darling Test Statistic	3.042	95% Bootstrap-t UCL	0.064
Anderson-Darling 5% Critical Value	0.759	95% Hall's Bootstrap UCL	0.072
Kolmogorov-Smirnov Test Statistic	0.416	95% Percentile Bootstrap UCL	0.024
Kolmogorov-Smirnov 5% Critical Value	0.22	95% BCA Bootstrap UCL	0.030
Data not Gamma Distributed at 5% Significance Lev	vel	95% Chebyshev(Mean, Sd) UCL	0.038

	kiriani-) et 1		ga lasti
		97.5% Chebyshev(Mean, Sd) UCL	0.048
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.068
95% Approximate Gamma UCL	0.0237		
95% Adjusted Gamma UCL	0.025		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.038
sult or 1/2 SDL (chloroform)			
Number of Valid Samples	General S	Statistics  Number of Unique Samples	15
	11		
Raw Statistics		Log-transformed Statistics	
Minimum	1.1400E-4	Minimum of Log Data	-9.079
Maximum	0.0052	Maximum of Log Data	-5.246
	9.0178E-4	Mean of log Data	-7.93
Median	2.2100E-4	SD of log Data	1.189
SD	0.0016		
Coefficient of Variation	1.851		
Skewness	2.462		naarna 2007 (Central Olivina
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.486	Shapiro Wilk Test Statistic	0.796
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0016	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0018	97.5% Chebyshev (MVUE) UCL	0.002
95% Modified-t UCL	0.0016	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test	Participa de Maria de	Data Distribution	
k star (bias corrected)	0.58	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0015		
nu star	18.56		
Approximate Chi Square Value (.05)	9.799	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.001
Adjusted Chi Square Value	9.081	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	2.224	95% Bootstrap-t UCL	0.006
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	0.006
Kolmogorov-Smirnov Test Statistic	0.358	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.225	95% BCA Bootstrap UCL	0.001
Data not Gamma Distributed at 5% Significance Lo		95% Chebyshev(Mean, Sd) UCL	0.002
	-	97.5% Chebyshev(Mean, Sd) UCL	0.003
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0050
95% Approximate Gamma UCL	0.0017		
95% Adjusted Gamma UCL	0.0018		v-114/11-4111
00 /b Adjusted Califfia OCL	0.0010		

Number of Valid Sample  Raw Statistics  Minimum  Mea  Media  S  Coefficient of Variation  Skewnes	m 5.01 m 14.4 n 9.214 n 10.19 D 2.644 n 0.287	Statistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	1.61 2.66 2.17 0.31
Raw Statistics  Minimum  Maximum  Mea  Media  S  Coefficient of Variation	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	1.61 2.66 2.17
Raw Statistics  Minimul  Maximul  Mea  Media  S  Coefficient of Variation	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	1.61 2.66 2.17
Raw Statistics  Minimul  Maximul  Mea  Media  S  Coefficient of Variation	m 5.01 m 14.4 n 9.214 n 10.19 D 2.644 n 0.287	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	1.61 2.66 2.17
Minimu Maximu Mea Media S Coefficient of Variatio	n 14.4 n 9.214 n 10.19 D 2.644 n 0.287	Minimum of Log Data Maximum of Log Data Mean of log Data	2.66 2.17
Maximu Media Media S Coefficient of Variatio	n 14.4 n 9.214 n 10.19 D 2.644 n 0.287	Minimum of Log Data Maximum of Log Data Mean of log Data	2.66 2.17
Media Media S Coefficient of Variatio	n 9.214 n 10.19 D 2.644 n 0.287	Mean of log Data	2.17
Media S Coefficient of Variatio	n 10.19 D 2.644 n 0.287	_	
S Coefficient of Variation	D 2.644 n 0.287	SD of log Data	0.31
Coefficient of Variation	n 0.287		and the family desired the second
Skewnes	s -0.17		
	1 1		
	Relevant UC	2. Statistics	
Normal Distribution Test		Lognormal Distribution Test	NAME AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY O
Shapiro Wilk Test Statist	c 0.902	Shapiro Wilk Test Statistic	0.87
Shapiro Wilk Critical Valu	e 0.887	Shapiro Wilk Critical Value	0.88
Data appear Normal at 5% Significance Leve	əl	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UC	L 10.37	95% H-UCL	10.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	12.44
95% Adjusted-CLT UC	L 10.27	97.5% Chebyshev (MVUE) UCL	13.83
95% Modified-t UC		99% Chebyshev (MVUE) UCL	16.55
Gamma Distribution Test	-	Data Distribution	
k star (bias corrected	9,542	Data appear Normal at 5% Significance Level	
Theta Sta		Data appear Normal at 0.0 Olymneurice Level	
nu sta			
Approximate Chi Square Value (.05	1 1	Nonparametric Statistics	
Adjusted Level of Significanc		95% CLT UCL	10.3
Adjusted Chi Square Valu	1 1	95% Jackknife UCL	10.37
		95% Standard Bootstrap UCL	10.24
Anderson-Darling Test Statisti	c 0.99	95% Bootstrap-t UCL	10.32
Anderson-Darling 5% Critical Valu	1	95% Hall's Bootstrap UCL	10.26
Kolmogorov-Smirnov Test Statisti	1	95% Percentile Bootstrap UCL	10.21
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	10.2
ata follow Appr. Gamma Distribution at 5% Significa		95% Chebyshev(Mean, Sd) UCL	12.09
		97.5% Chebyshev(Mean, Sd) UCL	13.34
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	15.79
95% Approximate Gamma UC	_ 10.58	,, , , ,	
95% Adjusted Gamma UC	l		***************************************
Potential UCL to Use		Use 95% Student's-t UCL	10.37

Nhambar at Vallet Oarra	General :		15
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics	***************************************	Log-transformed Statistics	***************************************
Minimum	0.0054	Minimum of Log Data	-5.212
Maximum	0.475	Maximum of Log Data	-0.744
Mean	0.0774	Mean of log Data	-3.614
Median	0.0177	SD of log Data	1.52
SD	0.123		-Hermanna-a-a-a-a-
Coefficient of Variation	1.585		A
Skewness	2.577		
	5-1	N. Otati-ti-a	
Normal Distribution Test	Relevant UC	CL Statistics	•
Normal Distribution Test Shapiro Wilk Test Statistic	0.649	Lognormal Distribution Test Shapiro Wilk Test Statistic	0.880
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.887	Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level	0.887	Data not Lognormal at 5% Significance Level	0.007
			1-0
Assuming Normal Distribution		Assuming Lognormal Distribution	· manusaman quantum merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusama merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusama merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusama merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusaman merusama merusaman merusama merusama merusama merusama merusama merusama merusama merusama merusama
95% Student's-t UCL	0.131	95% H-UCL	0.353
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.219
95% Adjusted-CLT UCL	0.149	97.5% Chebyshev (MVUE) UCL	0.28
95% Modified-t UCL	0.134	99% Chebyshev (MVUE) UCL	0.404
Gamma Distribution Test	0.510	Data Distribution	
k star (bias corrected) Theta Star	0.519 0.149	Data Follow Appr. Gamma Distribution at 5% Significance	e Level
nu stari	16.62		
Approximate Chi Square Value (.05)	8.399	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.128
Adjusted Chi Square Value	7.741	95% Jackknife UCL	0.131
		95% Standard Bootstrap UCL	0.125
Anderson-Darling Test Statistic	0.903	95% Bootstrap-t UCL	0.186
Anderson-Darling 5% Critical Value	0.789	95% Hall's Bootstrap UCL	0.311
Kolmogorov-Smirnov Test Statistic	0.206	95% Percentile Bootstrap UCL	0.126
Kolmogorov-Smirnov 5% Critical Value	0.226	95% BCA Bootstrap UCL	0.16
Data follow Appr. Gamma Distribution at 5% Significant	ce Level	95% Chebyshev(Mean, Sd) UCL	0.211
		97.5% Chebyshev(Mean, Sd) UCL	0.269
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.382
95% Approximate Gamma UCL	0.153		
95% Adjusted Gamma UCL	0.166		
Potential UCL to Use	1	Use 95% Approximate Gamma UCL	0.153
esult or 1/2 SDL (cobalt)			legislanda erregi ya
	General S	Statistics	
Number of Valid Samples	16	Number of Unique Samples	16
			to the same state of the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same a
Raw Statistics	i	Log-transformed Statistics	

	(1)		
Maximum	7.16	Maximum of Log Data	1.96
Mean	4.385	Mean of log Data	1.44
Median	4.06	SD of log Data	0.24
SD	1.131		
Coefficient of Variation	0.258		
Skewness	0.956		
	Relevant U	CL Statistics	Grand of the second of the sec
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.916	Shapiro Wilk Test Statistic	0.94
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
			Par - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	4.881	95% H-UCL	4.93
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	5.56
95% Adjusted-CLT UCL	4.922	97.5% Chebyshev (MVUE) UCL	6.07
95% Modified-t UCL	4.892	99% Chebyshev (MVUE) UCL	7.07
Gamma Distribution Test	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	Data Distribution	
k star (bias corrected)	14.16	Data appear Normal at 5% Significance Level	
Theta Star	0.31		
nu star	453.1		
Approximate Chi Square Value (.05)	404.8	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	4.85
Adjusted Chi Square Value	399.6	95% Jackknife UCL	4.88
	***************************************	95% Standard Bootstrap UCL	4.82
Anderson-Darling Test Statistic	0.352	95% Bootstrap-t UCL	4.95
Anderson-Darling 5% Critical Value	0.737	95% Hall's Bootstrap UCL	4.97
Kolmogorov-Smirnov Test Statistic	0.129	95% Percentile Bootstrap UCL	4.84
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	4.86
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	5.6
		97.5% Chebyshev(Mean, Sd) UCL	6.15
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	7.19
95% Approximate Gamma UCL	4.909		
95% Adjusted Gamma UCL	4.973		
Potential UCL to Use		Use 95% Student's-t UCL	4.88
sult or 1/2 SDL (copper)			
Number of Valid Samples	General	Statistics  Number of Unique Samples	16
si si rana sampio			
Raw Statistics		Log-transformed Statistics	
Minimum	3.28	Minimum of Log Data	1.18
Maximum	12.6	Maximum of Log Data	2.53
Mean	7.112	Mean of log Data	1.87
Median	6.655	SD of log Data	0.45
SD	2.997		ordeni navena na zena.
Coefficient of Variation	0.421		

gnormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Lognormal at 5% Significance Leve ming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution r Normal at 5% Significance Level	0.90 0.88 I 9.12 10.8 12.38
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Lognormal at 5% Significance Leve ming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution r Normal at 5% Significance Level	9.12 10.8 12.38
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Lognormal at 5% Significance Leve ming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution r Normal at 5% Significance Level	9.11 10.8 12.3
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Lognormal at 5% Significance Leve ming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution r Normal at 5% Significance Level	9.11 10.8 12.3
Shapiro Wilk Critical Value Lognormal at 5% Significance Leve ming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution r Normal at 5% Significance Level	9.12 10.8 12.3
Lognormal at 5% Significance Leve  ming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution  r Normal at 5% Significance Level	9.12 10.8 12.3
95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution r Normal at 5% Significance Level	10.8 12.3
95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution r Normal at 5% Significance Level	10.8 12.3
95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution r Normal at 5% Significance Level	10.8 12.3
97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution r Normal at 5% Significance Level	12.3
99% Chebyshev (MVUE) UCL  Data Distribution r Normal at 5% Significance Level	
Data Distribution r Normal at 5% Significance Level	15.4
r Normal at 5% Significance Level	
Ionparametric Statistics	
Ionparametric Statistics	
Ionparametric Statistics	
95% CLT UCL	8.3
95% Jackknife UCL	8.4
95% Standard Bootstrap UCL	8.2
95% Bootstrap-t UCL	8.4
95% Hall's Bootstrap UCL	8.3
·	8.2
	8.2
	10.3
	11.7
·	14.5
	) y
	tenana ta alimin to the te
Use 95% Student's-t UCL	8.4
	***************************************
Number of Unique Samples	16
g-transformed Statistics	
_	-7.01
	-5.46
	-6.21
	0.5
OD OF TOP Date	J.J.
anormal Distribution Test	
	0.8
	95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL

Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0028	95% H-UCL	0.003
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	0.003
95% Adjusted-CLT UCL	0.0029	97.5% Chebyshev (MVUE) UCL	0.004
95% Modified-t UCL	0.0028	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	and Program quarter of several right on the
k star (bias corrected)	2.996	Data Follow Appr. Gamma Distribution at 5% Significance	ce l evel
Theta Star		Dute 1 onow 7 ppr. Gamma Distribution at 0.0 organical	
	95.86		
nu star		NI A-II- OA-II-N	
Approximate Chi Square Value (.05)	74.28	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.00
Adjusted Chi Square Value	72.12	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.743	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.215	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.00
Data follow Appr. Gamma Distribution at 5% Significan	ice Level	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
95% Approximate Gamma UCL	0.0029		
95% Adjusted Gamma UCL	0.0030		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.00
Result or 1/2 SDL (dibenz(a,h)anthracene)			
	General S		
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	e equipment (All Marie VI) U
Raw Statistics Minimum	0.0059	Log-transformed Statistics Minimum of Log Data	-5.133
	0.0059 0.235		
Minimum		Minimum of Log Data	-1.448
Minimum Maximum	0.235	Minimum of Log Data Maximum of Log Data	-1.448 -4.041
Minimum Maximum Mean	0.235 0.0435	Minimum of Log Data Maximum of Log Data Mean of log Data	-1.448 -4.041
Minimum Maximum Mean Median SD	0.235 0.0435 0.0078 0.0649	Minimum of Log Data Maximum of Log Data Mean of log Data	-1.448 -4.041
Minimum Maximum Mean Median	0.235 0.0435 0.0078	Minimum of Log Data Maximum of Log Data Mean of log Data	-1.448 -4.041
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.235 0.0435 0.0078 0.0649 1.491	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-1.448 -4.041
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.235 0.0435 0.0078 0.0649 1.491 2.176	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-1.448 -4.041
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.235 0.0435 0.0078 0.0649 1.491 2.176	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-1.448 -4.041 1.34
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.235 0.0435 0.0078 0.0649 1.491 2.176	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test	-1.448 -4.041 1.34
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  . F Normal Distribution Test Shapiro Wilk Test Statistic	0.235 0.0435 0.0078 0.0649 1.491 2.176 Relevant UC	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.133 -1.448 -4.041 1.342 0.766 0.883
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.235 0.0435 0.0078 0.0649 1.491 2.176 Relevant UC	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-1.448 -4.041 1.34

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.10
95% Adjusted-CLT UCL	0.0796	97.5% Chebyshev (MVUE) UCL	0.13
95% Modified-t UCL	0.0734	99% Chebyshev (MVUE) UCL	0.18
Gamma Distribution Test		Data Distribution	
	0.587		=1
k star (bias corrected) Theta Star	0.587	Data do not follow a Discernable Distribution (0.05	o)
nu star	18.77		
Approximate Chi Square Value (.05)	9.952	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.07
Adjusted Chi Square Value	9.227	95% Jackknife UCL	0.07
Adjusted Citi Square value	5.221	95% Standard Bootstrap UCL	0.07
Anderson-Darling Test Statistic	1.818	95% Bootstrap-t UCL	0.10
Anderson-Darling 5% Critical Value	0.781	95% Hall's Bootstrap UCL	0.10
Kolmogorov-Smirnov Test Statistic	0.358	95% Percentile Bootstrap UCL	0.13
Kolmogorov-Smirnov 5% Critical Value	0.224	95% BCA Bootstrap UCL	0.07
Data not Gamma Distributed at 5% Significance Lev	\	95% Chebyshev(Mean, Sd) UCL	0.00
Data not danima Distributed at 3% diginicance Les	YGI	97.5% Chebyshev(Mean, Sd) UCL	0.11
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.14
95% Approximate Gamma UCL	0.0821	33 % Chebyshev(Mean, 30) OCL	0.20
95% Adjusted Gamma UCL	0.0827		
30% Adjusted Gariffia OCL	0.0000		~
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.20
t or 1/2 SDL (dibenzofuran)	General Sta	tistics	
	General Sta	itistics  Number of Unique Samples	14
t or 1/2 SDL (dibenzofuran)  Number of Valid Samples		N ·	14
		N ·	14
Number of Valid Samples		Number of Unique Samples	-4.75
Number of Valid Samples Raw Statistics	16	Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples  Raw Statistics  Minimum	0.0086	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-4.75 -3.49
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0086 0.0305	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-4.75 -3.49 -4.486
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0086 0.0305 0.0123	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-4.75 -3.49 -4.486
Raw Statistics  Minimum  Maximum  Mean  Median	0.0086 0.0305 0.0123 0.0096	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-4.75 -3.49 -4.486
Raw Statistics  Minimum  Maximum  Mean  Median	0.0086 0.0305 0.0123 0.0096 0.0065	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-4.75
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-4.75 -3.49 -4.486
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0086 0.0305 0.0123 0.0096 0.0065 0.534	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-4.75 -3.49 -4.486
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-4.75 -3.49 -4.486
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Re  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-4.75 -3.49 -4.486 0.38
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-4.75 -3.49 -4.486 0.38
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  Revenues  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-4.75 -3.49 -4.486 0.38
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  Re  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369 elevant UCL \$	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-4.75 -3.49 -4.486 0.38 0.67
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  Re  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-4.75 -3.49 -4.486 0.38 0.67 0.88
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  Re  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369 elevant UCL 3	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-4.75 -3.49 -4.486 0.38 0.67 0.88
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Re  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369 elevant UCL \$	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-4.75 -3.49 -4.486 0.38 0.67 0.88
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Re  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0086 0.0305 0.0123 0.0096 0.0065 0.534 2.369 elevant UCL 3	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-4.75 -3.49 -4.486 0.38 0.67 0.88

	Construction and the		
k star (bias corrected)	4.848	Data do not follow a Discernable Distribution (0.05	5)
Theta Star			
nu star	155.2		
Approximate Chi Square Value (.05)	127.4	Nonparametric Statistics	7
Adjusted Level of Significance	0.0335	95% CLT UCL	0.015
Adjusted Chi Square Value	124.5	95% Jackknife UCL	0.0152
		95% Standard Bootstrap UCL	0.0149
Anderson-Darling Test Statistic	2.403	95% Bootstrap-t UCL	0.0241
Anderson-Darling 5% Critical Value	0.741	95% Hall's Bootstrap UCL	0.0298
Kolmogorov-Smirnov Test Statistic	0.304	95% Percentile Bootstrap UCL	0.015
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.0162
Data not Gamma Distributed at 5% Significance L	.evel	95% Chebyshev(Mean, Sd) UCL	0.0194
	T	97.5% Chebyshev(Mean, Sd) UCL	0.0225
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0286
95% Approximate Gamma UCL	0.015		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
95% Adjusted Gamma UCL	0.0153		
	<b> </b>		lamen ere enge egere menggenjapan 1964 1966
Potential UCL to Use	1	Use 95% Student's-t UCL	0.0152
		or 95% Modified-t UCL	0.0153
Result or 1/2 SDL (diethyl phthalate)	www.com.com.com.com.com.com.com.com.com.com		
	General S	Statistics	h.m.frfr
Number of Valid Samples		Number of Unique Samples	14
	iI.		
Raw Statistics		Log-transformed Statistics	
Minimum	0.0104	Minimum of Log Data	-4.566
Maximum	0.0389	Maximum of Log Data	-3.247
Mean	0.0135	Mean of log Data	-4.369
Median	0.0112	SD of log Data	0.326
SD	0.0069		
Coefficient of Variation	0.513		
Skewness	3.652		an and a design space of a deal and a del door a constant of
	Relevant UC	I. Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.461	Shapiro Wilk Test Statistic	0.602
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level	<u> </u>	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	to the most three and the second
95% Student's-t UCL	0.0166	95% H-UCL	0.0157
95% UCLs (Adjusted for Skewness)	, de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de l	95% Chebyshev (MVUE) UCL	0.0181
95% Adjusted-CLT UCL	0.0181	97.5% Chebyshev (MVUE) UCL	0.0202
	0.0169	99% Chebyshev (MVUE) UCL	0.0242
95% Modified-t UCL	0.0103	is a submitted that the form the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of t	
	0.0109	Pata Distribution	
Gamma Distribution Test		Data Distribution  Data do not follow a Discernable Distribution (0.05)	
Gamma Distribution Test k star (bias corrected)	6.232	Data Distribution  Data do not follow a Discernable Distribution (0.05)	)
Gamma Distribution Test k star (bias corrected) Theta Star	6.232		)
Gamma Distribution Test k star (bias corrected)	6.232 0.0021 199.4		)

on engagyung ilian di ngama sanangan nggang penganggan agamanggan pengalambangan pengangan pengangan mengangga	Industrial make	[20] strongering the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	-this encousar
Adjusted Level of Significance	0.0335	95% CLT UCL	0.016
Adjusted Chi Square Value	164.5	95% Jackknife UCL	0.016
		95% Standard Bootstrap UCL	0.016
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	0.025
Anderson-Darling 5% Critical Value	0.74	95% Hall's Bootstrap UCL	0.026
Kolmogorov-Smirnov Test Statistic	0.283	95% Percentile Bootstrap UCL	0.016
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.018
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.021
		97.5% Chebyshev(Mean, Sd) UCL	0.024
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.030
95% Approximate Gamma UCL	0.0161		
95% Adjusted Gamma UCL	0.0164		
93 % Aujusted Gamma OCL	0.0104		·····
Potential UCL to Use		Use 95% Student's-t UCL	0.016
to the spring property of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro		or 95% Modified-t UCL	0.016
esult or 1/2 SDL (di-n-octyl phthalate)			
	General S	Statistics	
Number of Valid Samples	16	Number of Unique Samples	13
Raw Statistics		Log-transformed Statistics	-1-10 M-41(4 10111111111111111111111111111111111
Minimum	0.0051	Minimum of Log Data	-5.279
Maximum	0,192	Maximum of Log Data	-1.65
Mean	0.018	Mean of log Data	-4.875
Median	0.0056	SD of log Data	0.9
SD	0.0465		
Coefficient of Variation			
	2.577		
Skewness	3.983		halo esta esta esta esta esta esta esta esta
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.303	Shapiro Wilk Test Statistic	0.476
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0384	95% H-UCL	0.020
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.022
95% Adjusted-CLT UCL	0.0495	97.5% Chebyshev (MVUE) UCL	0.027
95% Modified-t UCL	0.0403	99% Chebyshev (MVUE) UCL	0.038
Gamma Distribution Test		Data Distribution	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
k star (bias corrected)	0.613	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.0294		-
nu star	19.61		
Approximate Chi Square Value (.05)	10.57	Nonparametric Statistics	······································
		95% CLT UCL	0.037
Adjusted Level of Significance	0.0335		*************
Adjusted Chi Square Value	9.817	95% Jackknife UCL	0.038
	1	95% Standard Bootstrap UCL	0.036
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	0.744

CONTRACTOR MARKET CONTRACTOR OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF	<del>grada sa</del>	[15] [15] [15] [15] [15] [15] [15] [15]	CHARLES
Anderson-Darling 5% Critical Value	0.779	95% Hall's Bootstrap UCL	0.313
Kolmogorov-Smirnov Test Statistic	0.779	95% Percentile Bootstrap UCL	0.041
Kolmogorov-Smirnov 7est Statistic	0.408	95% BCA Bootstrap UCL	0.041
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.0686
A control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont		97.5% Chebyshev(Mean, Sd) UCL	0.090
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.134
95% Approximate Gamma UCL	0.0335	Co /a Chabyanov(waati, Ga) Co Z	U.101
95% Adjusted Gamma UCL	0.036		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0686
Result or 1/2 SDL (fluoranthene)			
	General S		
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics	ou dumerrander en et en en en en en	Log-transformed Statistics	THE RESIDENCE OF THE PROPERTY PROPERTY.
Minimum	0.0068	Minimum of Log Data	-4.984
Maximum	0.804	Maximum of Log Data	-0.218
Mean	0.113	Mean of log Data	-3.442
Median	0.016	SD of log Data	1.651
SD	0.201		
Coefficient of Variation	1.786		
Skewness	3.01		ar den tradens arm som garlyn armelling som flyn star i den star i
F	Relevant UC	L Statistics	THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.577	Shapiro Wilk Test Statistic	0.826
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	
Data not Normal at 5% Significance Level			0.887
		Data not Lognormal at 5% Significance Level	0.887
Assuming Normal Distribution			0.887
Assuming Normal Distribution 95% Student's-t UCL	0.201	Assuming Lognormal Distribution	
Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.201		0.887 0.642 0.327
95% Student's-t UCL	0.201	Assuming Lognormal Distribution 95% H-UCL	0.642
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)		Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	0.642 0.327
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.236	Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.642 0.327 0.423
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.236 0.207	Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution	0.642 0.327 0.423 0.611
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected)	0.236 0.207 0.451	Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.642 0.327 0.423 0.611
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.236 0.207	Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution	0.642 0.327 0.423 0.611
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star	0.236 0.207 0.451 0.25	Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution	0.642 0.327 0.423 0.611
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.236 0.207 0.451 0.25 14.44	Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.0)	0.642 0.327 0.423 0.611
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.236 0.207 0.451 0.25 14.44 6.872	Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.09)  Nonparametric Statistics	0.642 0.327 0.423 0.611
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.236 0.207 0.451 0.25 14.44 6.872 0.0335	Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.09)  Nonparametric Statistics  95% CLT UCL	0.642 0.327 0.423 0.611
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.236 0.207 0.451 0.25 14.44 6.872 0.0335	Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.0)  Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL	0.642 0.327 0.423 0.611 5) 0.196 0.201
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	0.236 0.207 0.451 0.25 14.44 6.872 0.0335 6.285	Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.0)  Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL	0.642 0.327 0.423 0.611 5) 0.196 0.201 0.194
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.236 0.207 0.451 0.25 14.44 6.872 0.0335 6.285	Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.0)  Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL	0.642 0.327 0.423 0.611 5) 0.196 0.201 0.194 0.306
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	0.236 0.207 0.451 0.25 14.44 6.872 0.0335 6.285 1.352 0.796	Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.0)  Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Bootstrap UCL  95% Hall's Bootstrap UCL	0.642 0.327 0.423 0.611 55) 0.196 0.201 0.194 0.306 0.492
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.236 0.207 0.451 0.25 14.44 6.872 0.0335 6.285 1.352 0.796 0.27 0.227	Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.0)  Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL  95% Bootstrap-t UCL  95% Hall's Bootstrap UCL	0.642 0.327 0.423 0.611 5) 0.196 0.201 0.306 0.492 0.201

Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.61
95% Approximate Gamma UCL	0.237		
95% Adjusted Gamma UCL	0.259		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.61
ult or 1/2 SDL (fluorene)	445-445, 445-454, 445-454, 445-454, 445-454, 445-454, 445-454, 445-454, 445-454, 445-454, 445-454, 445-454, 44		
	General St	atistics	
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	0.006	Minimum of Log Data	-5.116
Maximum	0.046	Maximum of Log Data	-3.079
Mean	0.0122	Mean of log Data	-4.65
Median	0.0073	SD of log Data	0.63
SD	0.0111		
Coefficient of Variation	0.916		
Skewness	2.347		
R	lelevant UCL	. Statistics	La transcriber de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitució
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.612	Shapiro Wilk Test Statistic	0.73
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.017	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)	0.0405	95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0185	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.02
95% Modified-t UCL	0.0173	99% Chebyshev (MVDE) OCL	0.03
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.859	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.0065		
nu star	59.5		
Approximate Chi Square Value (.05)	42.76	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.0
Adjusted Chi Square Value	41.15	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	2.153	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.349	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev(Mean, Sd) UCL	0.02
Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution  95% Approximate Gamma UCL	0.0169	99% Chebysnev(Mean, 5d) UCL	U.U.
95% Adjusted Gamma UCL	0.0169		***************************************
			nder og sed i trep sede <sub>s</sub> en i
· · · · · · · · · · · · · · · · · · ·	LL	Use 95% Chebyshev (Mean, Sd) UCL	0.02

lt or 1/2 SDL (gamma-chlordane)			
	General	Statistics	
Number of Valid Sample	s 16	Number of Unique Samples	14
Raw Statistics	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Log-transformed Statistics	***************************************
	n 1.5950E-4	Log-dansionned Statistics  Minimum of Log Data	-8.743
	n 8.2600E-4	Maximum of Log Data	-7.099
	1 3.1319E-4	Mean of log Data	-8.275
	n 1.9550E-4	SD of log Data	0.61
	2.3598E-4		
Coefficient of Variation			·
Skewnes			+++,1-,1 <sub>2</sub> ,1 <sub>2</sub> ,1 <sub>3</sub>
Normal Distribution Test	Relevant UC	CL Statistics  Lognormal Distribution Test	
Shapiro Wilk Test Statisti	0.664	Shapiro Wilk Test Statistic	0.71
Shapiro Wilk Critical Value	1	Shapiro Wilk Critical Value	0.71
Data not Normal at 5% Significance Level	0.007	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCI	4.1661E-4	95% H-UCL	4.3515E
95% UCLs (Adjusted for Skewness)	***************************************	95% Chebyshev (MVUE) UCL	5.1626E
95% Adjusted-CLT UCI	4.3152E-4	97.5% Chebyshev (MVUE) UCL	
95% Modified-t UCI	4.1993E-4	99% Chebyshev (MVUE) UCL	7.8909E
Gamma Distribution Test		Data Distribution	er i eres e des l'années en un rédélie de
k star (bias corrected	) 2.133	Data do not follow a Discernable Distribution (0.0	5)
	r 1.4684E-4		
nu sta			
Approximate Chi Square Value (.05		Nonparametric Statistics	
Adjusted Level of Significance	Í	95% CLT UCL	4.1022E
Adjusted Chi Square Value		95% Jackknife UCL	
		95% Standard Bootstrap UCL	4.0927E
Anderson-Darling Test Statistic	2.341	95% Bootstrap-t UCL	4.9207E
Anderson-Darling 5% Critical Value	0.747	95% Hall's Bootstrap UCL	3.9193E
Kolmogorov-Smirnov Test Statistic	0.362	95% Percentile Bootstrap UCL	4.1500E
Kolmogorov-Smirnov 5% Critical Value	0.217	95% BCA Bootstrap UCL	4.2356E
Data not Gamma Distributed at 5% Significance I	_evel	95% Chebyshev(Mean, Sd) UCL	5.7034E
		97.5% Chebyshev(Mean, Sd) UCL	6.8160E
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	9.0017E
95% Approximate Gamma UCL	4.2550E-4		
95% Adjusted Gamma UCI	4.4092E-4		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	5.7034E

Number of Valid Samples	16	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	
Minimum	0.0075	Minimum of Log Data	-4.893
Maximum	0.0319	Maximum of Log Data	-3.445
Mean	0.01	Mean of log Data	-4.686
Median	0.0081	SD of log Data	0.35
SD	0.0059		
Coefficient of Variation	0.593		
Skewness	3.745		***************************************
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.433	Shapiro Wilk Test Statistic	0.57
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	0.0126	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.014	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0129	99% Chebyshev (MVUE) UCL	0.01
Gamma Distribution Test		Data Distribution	······································
k star (bias corrected)	5.058	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0019		
nu star	161.9		w.up-w-v.u.u.w.w.
Approximate Chi Square Value (.05)	133.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.01
Adjusted Chi Square Value	130.5	95% Jackknife UCL	0.01
		95% Standard Bootstrap UCL	0.01
Anderson-Darling Test Statistic	2.793	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.741	95% Hall's Bootstrap UCL	0.02
Kolmogorov-Smirnov Test Statistic	0.307	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 1est Statistic	0.216	95% BCA Bootstrap UCL	0.01
Data not Gamma Distributed at 5% Significance Le	L	95% Chebyshev(Mean, Sd) UCL	0.01
Data not Gamma Distributed at 3% Significance Le	.vei	97.5% Chebyshev(Mean, Sd) UCL	0.01
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.01
_	0.0100	99% Chebyshev(Weah, Sd) UCL	U.UZ
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0122 0.0124		doposana de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la
			·
Potential UCL to Use	-	Use 95% Student's-t UCL	0.01
		or 95% Modified-t UCL	0.01
sult or 1/2 SDL (indeno(1,2,3-cd)pyrene)			
	General S	tatistics	Person 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	, 1842 gaza i 1.200 (1.11 km) 1440 (141 km)
	i	-38	

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Skewness	1.341		
	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.873	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	<del>)</del>
Assuming Normal Distribution		Assuming Lognormal Distribution	ranaca santitrir ras rata
95% Student's-t UCL	15782	95% H-UCL	16280
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	19078
95% Adjusted-CLT UCL	16129	97.5% Chebyshev (MVUE) UCL	21568
95% Modified-t UCL	1	99% Chebyshev (MVUE) UCL	26460
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.759	Data appear Gamma Distributed at 5% Significance	Level
Theta Star			
nu star	<b></b>		
Approximate Chi Square Value (.05)	153.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	-	15632
Adjusted Chi Square Value	1	P VINTE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR	15782
		95% Standard Bootstrap UCL	15544
Anderson-Darling Test Statistic	0.495	·	16816
Anderson-Darling 5% Critical Value	0.74	95% Hall's Bootstrap UCL	18440
Kolmogorov-Smirnov Test Statistic	L	95% Percentile Bootstrap UCL	15673
Kolmogorov-Smirnov 5% Critical Value	0.136	95% BCA Bootstrap UCL	16268
Data appear Gamma Distributed at 5% Significance	<u> </u>	95% Chebyshev(Mean, Sd) UCL	19395
	1		22010
Assuming Gamma Distribution			27146
95% Approximate Gamma UCL	15989		
95% Adjusted Gamma UCL	l		na na ramana na trata de mentral a
Potential UCL to Use		Use 95% Approximate Gamma UCL	15989
sult or 1/2 SDL (isopropylbenzene (cumene))			
	General St	atistics	
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	1.2400E-4	Minimum of Log Data	-8.99
Maximum	0.0070	Maximum of Log Data	-4.95
Mean	0.0010	Mean of log Data	-7.84
	2.4000E-4	SD of log Data	1.19
SD	0.0019		
Coefficient of Variation	1.926		
Skewness	2.71		
	Relevant UCL	Statistics	en-desp-designative by treative
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.493	Shapiro Wilk Test Statistic	0.80

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Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level	0.007	Data not Lognormal at 5% Significance Level	0.007
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0018	95% H-UCL	0.002
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0021	97.5% Chebyshev (MVUE) UCL	0.002
95% Modified-t UCL	0.0019	99% Chebyshev (MVUE) UCL	0.003
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.566	Data do not follow a Discernable Distribution (0.08	5)
Theta Star	0.0017		
nu star	18.12		· · · · · · · · · · · · · · · · · · ·
Approximate Chi Square Value (.05)	9.479	Nonparametric Statistics	#100 H1 14 W1 14 W1 14 W1 14 W1
Adjusted Level of Significance	0.0335	95% CLT UCL	0.001
Adjusted Chi Square Value	8.774	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	2.176	95% Bootstrap-t UCL	0.008
Anderson-Darling 5% Critical Value	0.784	95% Hall's Bootstrap UCL	0.008
Kolmogorov-Smirnov Test Statistic	0.361	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.225	95% BCA Bootstrap UCL	0.002
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.003
		97.5% Chebyshev(Mean, Sd) UCL	0.004
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.005
95% Approximate Gamma UCL	0.0019		
95% Adjusted Gamma UCL	0.0020		·
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.005
esult or 1/2 SDL (lead)			
	General S	tatistics	
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
Minimum	5	Minimum of Log Data	1.609
Maximum	32.3	Maximum of Log Data	3.475
Mean	11.56	Mean of log Data	2.311
Median	10.03	SD of log Data	0.512
SD	7.161		
Coefficient of Variation	0.62		
Skewness	2.013		
	elektronomien (1900 elektronomien kantan kantan (1900 elektronomien (1900 elektronomien (1900 elektronomien (1		
	Relevant UC		
Normal Distribution Test	<u> </u>	Lognormal Distribution Test	*****
Shapiro Wilk Test Statistic	0.774	Shapiro Wilk Test Statistic	0.939
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	14.69	95% H-UCL	15.11

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	17.9	
95% Adjusted-CLT UCL	15.46	97.5% Chebyshev (MVUE) UCL	20.7	
95% Modified-t UCL	14.84	99% Chebyshev (MVUE) UCL	26.3	
Gamma Distribution Test		Data Distribution		
k star (bias corrected)	3.16	Data appear Gamma Distributed at 5% Significance I	Level	
Theta Star	3.657			
nu star	101.1			
Approximate Chi Square Value (.05)	78.92	Nonparametric Statistics		
Adjusted Level of Significance	0.0335	95% CLT UCL	14.5	
Adjusted Chi Square Value	76.69	95% Jackknife UCL	14.6	
		95% Standard Bootstrap UCL	14.4	
Anderson-Darling Test Statistic	1. 1.	95% Bootstrap-t UCL	17.8	
Anderson-Darling 5% Critical Value	0.742	95% Hall's Bootstrap UCL	31.5	
Kolmogorov-Smirnov Test Statistic	1	95% Percentile Bootstrap UCL	14.5	
Kolmogorov-Smirnov 5% Critical Value	l	95% BCA Bootstrap UCL	15.6	
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	19.3	
		97.5% Chebyshev(Mean, Sd) UCL	22.7	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	29.3	
95% Approximate Gamma UCL	14.81			
95% Adjusted Gamma UCL	15.24			
Potential UCL to Use		Use 95% Approximate Gamma UCL	14.8	
ult or 1/2 SDL (lithium)	General S	statistics		
ult or 1/2 SDL (lithium)  Number of Valid Samples	General S	Statistics  Number of Unique Samples	15	
		Number of Unique Samples	15	
Number of Valid Samples	16			
Number of Valid Samples Raw Statistics	16	Number of Unique Samples  Log-transformed Statistics	1.8	
Number of Valid Samples  Raw Statistics  Minimum	6.4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	1.8	
Number of Valid Samples  Raw Statistics  Minimum  Maximum	6.4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	1.8 2.9 2.3	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	6.4 20 10.53	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	1.8 2.9 2.3	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	6.4 20 10.53 9.88	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	1.8 2.9 2.3	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	6.4 20 10.53 9.88 3.559	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	1.8 2.9 2.3	
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	6.4 20 10.53 9.88 3.559 0.338	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	1.8 2.9 2.3	
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	6.4 20 10.53 9.88 3.559 0.338 1.247	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	1.8 2.9 2.3	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	6.4 20 10.53 9.88 3.559 0.338 1.247	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	1.8 2.9 2.3 0.3	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test	6.4 20 10.53 9.88 3.559 0.338 1.247	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test	1.8 2.9 2.3 0.3	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	1.8 2.9 2.3 0.3 0.9	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level	6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	1.8 2.9 2.3 0.3 0.9	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution	6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution	1.8 2.9 2.3 0.3	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	1.8 2.9 2.3 0.3 0.9 0.8	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	6.4 20 10.53 9.88 3.559 0.338 1.247  Relevant UCI 0.894 0.887	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	1.8 2.9 2.3 0.3 0.9 0.8 12.29	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	1.8 2.9 2.3 0.3 0.9 0.8	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	16 6.4 20 10.53 9.88 3.559 0.338 1.247 Relevant UC 0.894 0.887	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	1 1 1	

			- 3 - <b>32</b> -50
k star (bias corrected	8.624	Data appear Normal at 5% Significance Level	
Theta Sta			
nu stal	276		
Approximate Chi Square Value (.05	238.5	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	-	12
Adjusted Chi Square Value	234.5	95% Jackknife UCL	12.09
		95% Standard Bootstrap UCL	11.95
Anderson-Darling Test Statistic	0.319	95% Bootstrap-t UCL	12.55
Anderson-Darling 5% Critical Value	0.739	95% Hall's Bootstrap UCL	12.89
Kolmogorov-Smirnov Test Statistic	0.119	95% Percentile Bootstrap UCL	11.96
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	12.23
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	14.41
		97.5% Chebyshev(Mean, Sd) UCL	16.09
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	19.39
95% Approximate Gamma UCL	12.19		M
95% Adjusted Gamma UCL	12.39		
Potential UCL to Use		Use 95% Student's-t UCL	12.09
Result or 1/2 SDL (manganese)			
	······································		
	General S		
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	192	Minimum of Log Data	5.25
Maximum	474	Maximum of Log Data	6.16
Mean	283.3	Mean of log Data	5.60
Median	275	SD of log Data	0.30
SD	87.59		14.11011094VIII(AUIII)
Coefficient of Variation	0.309		
Skewness	0.667		
	Relevant UC	L Statistics	·····
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.889	Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	321.6	95% H-UCL	328.4
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	377.1
95% Adjusted-CLT UCL	323.2	97.5% Chebyshev (MVUE) UCL	417.8
95% Modified-t UCL	322.2	99% Chebyshev (MVUE) UCL	497.7
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	9.583	Data appear Normal at 5% Significance Level	
Theta Star	29.56	arrana a on oldunano read	
nu star	306.7		
Approximate Chi Square Value (.05)			***************************************
Approximate Citi Square Value (.03)	267.1	Nonparametric Statistics	

	\$2465255.2514.vd		
Adjusted Chi Square Value	262.9	95% Jackknife UCL	321,6
		95% Standard Bootstrap UCL	318.6
Anderson-Darling Test Statistic	0.707	95% Bootstrap-t UCL	324.1
Anderson-Darling 5% Critical Value	0.739	95% Hall's Bootstrap UCL	322.7
Kolmogorov-Smirnov Test Statistic	0.733	95% Percentile Bootstrap UCL	319.3
Kolmogorov-Smirnov 5% Critical Value	0.208	95% BCA Bootstrap UCL	322.1
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	378.7
Data appear Gamma Distributed at 5% Significance	revei	97.5% Chebyshev(Mean, Sd) UCL	420
Accomplise Commercial Distribution		97.3% Chebyshev(Mean, Sd) UCL	501.1
Assuming Gamma Distribution	205.0	99% Chebyshev (Mean, Su) OCL	30 I. I
95% Approximate Gamma UCL	325.2		
95% Adjusted Gamma UCL	330.4		
Potential UCL to Use		Use 95% Student's-t UCL	321.6
esult or 1/2 SDL (mercury)	General S	Statistics  Number of Unique Samples	1,3
Number of Valid Samples	10		
Raw Statistics		Log-transformed Statistics	
Minimum	0.011	Minimum of Log Data	-4.51
Maximum	0.036	Maximum of Log Data	-3.324
Mean	0.0201	Mean of log Data	-3.972
Median	0.02	SD of log Data	0.367
SD	0.0073		
Coefficient of Variation	0.368		
Skewness	0.618		***************************************
	Relevant UC	CL Statistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.929	Shapiro Wilk Test Statistic	0.94
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data appear Normal at 5% Significance Level	***************************************	Data appear Lognormal at 5% Significance Leve	<del>}</del>
			1411,1441,1411,1411,1411,1411,1411,141
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0233	95% H-UCL	0.024
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.02
95% Adjusted-CLT UCL	0.0234	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.0233	99% Chebyshev (MVUE) UCL	0.03
	14 = 114 = 1 14 17 17 17 17 17 17 17 17 17 17 17 17 17		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	6.623	Data appear Normal at 5% Significance Level	
Theta Star	0.0030		
· nu star	211.9		
Approximate Chi Square Value (.05)	179.2	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.02
Adjusted Chi Square Value	175.8	95% Jackknife UCL	0.02
		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	0.386	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.74	95% Hall's Bootstrap UCL	0.02
Kolmogorov-Smirnov Test Statistic	0.149	95% Percentile Bootstrap UCL	0.02

	Light poor interact of	eggestettisjärti (j. 15 ggg) i ettyrkistist (v. sacior) muuroisel isservieren (s. s. Franciscom varionta)	erik svenistar
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	0.023
Data appear Gamma Distributed at 5% Significance	<u> </u>	95% Chebyshev(Mean, Sd) UCL	0.028
	1	97.5% Chebyshev(Mean, Sd) UCL	0.031
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.038
95% Approximate Gamma UCL	0.0237	oo o chosy cho (modify out)	
95% Adjusted Gamma UCL	0.0237		the second section is the second
Potential UCL to Use		Use 95% Student's-t UCL	0.023
esult or 1/2 SDL (methylcyclohexane)			
	General S	Statistics	
Number of Valid Samples		Number of Unique Samples	16
Raw Statistics		Log-transformed Statistics	
	2.9950E-4	Minimum of Log Data	-8.113
Maximum	0.0037	Maximum of Log Data	-5.599
	9.5050E-4	Mean of log Data	-7.232
	5.8250E-4	SD of log Data	0.724
	8.5690E-4		
Coefficient of Variation	0.902		
Skewness	2.396		
	THE RESERVE THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF TH		
Normal Distribution Test	Relevant UC	L Statistics  Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.699	Shapiro Wilk Test Statistic	0.898
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level	0.007	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0013	95% H-UCL	0.001
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL	0.0014	97.5% Chebyshev (MVUE) UCL	0.002
95% Modified-t UCL	0.0013	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.649	Data Follow Appr. Gamma Distribution at 5% Significance	e Level
Theta Star	5.7638E-4		***************************************
nu star	52.77		
Approximate Chi Square Value (.05)	37.08	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	0.001
Adjusted Chi Square Value	35.59	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	0.885	95% Bootstrap-t UCL	0.001
Anderson-Darling 5% Critical Value	0.75	95% Hall's Bootstrap UCL	0.002
Kolmogorov-Smirnov Test Statistic	0.208	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	0.001
Data follow Appr. Gamma Distribution at 5% Significan		95% Chebyshev(Mean, Sd) UCL	0.001
True			
		97.5% Chebyshev(Mean, Sd) UCI	0.002
Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.002

	Use 95% Approximate Gamma UCL	0.001
General St	atistics	
16	Number of Unique Samples	15
***************************************	Log-transformed Statistics	
0.14	Minimum of Log Data	-1.966
5.66	Maximum of Log Data	1.73
0.667	Mean of log Data	-1.108
0.24	SD of log Data	0.95
1.358	7	
		~~~
3.761		ft ) \$ - \$p\$p-2\$- }#
Relevant UCL	Statistics	
	Lognormal Distribution Test	
0.407	Shapiro Wilk Test Statistic	0.77
0.887	Shapiro Wilk Critical Value	0.88
	Data not Lognormal at 5% Significance Level	
	Assuming Lognormal Distribution	
1 262		0.99
		1.06
1.566		1.30
1.315	99% Chebyshev (MVUE) UCL	1.78
0.704		
	Data do not follow a Discernable Distribution (0.05	)
13.21	Nonparametric Statistics	mana <del>ra</del> garanga
0.0335	95% CLT UCL	1.22
12.36	95% Jackknife UCL	1.26
	95% Standard Bootstrap UCL	1.20
2.348	95% Bootstrap-t UCL	4.4
0.771	95% Hall's Bootstrap UCL	3.29
0.318	95% Percentile Bootstrap UCL	1.30
0.222	95% BCA Bootstrap UCL	1.68
	95% Chebyshev(Mean, Sd) UCL	2.14
evel		
evel	97.5% Chebyshev(Mean, Sd) UCL	2.78
evel		d to mate to a constitution on the
1.169	97.5% Chebyshev(Mean, Sd) UCL	2.78 4.04
	97.5% Chebyshev(Mean, Sd) UCL	d to mate to a constitution on the
	16  0.14 5.66 0.667 0.24 1.358 2.036 3.761  Relevant UCL 0.407 0.887  1.262  1.566 1.315  0.724 0.922 23.15 13.21 0.0335 12.36 2.348 0.771	Log-transformed Statistics

araturana. Milatira matamana da ang menunggunggunggunggunggunggunggunggunggun	General	Statistics	
Number of Valid Samples		Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	5.8	Minimum of Log Data	1.75
Maximum	16.7	Maximum of Log Data	2.81
Mean	9.589	Mean of log Data	2.22
Median	9.93	SD of log Data	0.28
SD	2.741		
Coefficient of Variation	0.286		
Skewness	0.821		
	Relevant U	CL Statistics	magazaga ti ti ti ta safata
Normal Distribution Test	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Lognormal Distribution Test	And and Committee to the Personal Committee of
Shapiro Wilk Test Statistic	1	Shapiro Wilk Test Statistic	0.92
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	10.79	95% H-UCL	11.02
95% UCLs (Adjusted for Skewness)	£	95% Chebyshev (MVUE) UCL	12.58
95% Adjusted-CLT UCL	10.87	97.5% Chebyshev (MVUE) UCL	13.88
95% Modified-t UCL	10.81	99% Chebyshev (MVUE) UCL	16.42
Gamma Distribution Test	ti Pagland a dinglan garda libertar minera a sinaka i Paghinaga nagka angka angka a	Data Distribution	
k star (bias corrected)	11.02	Data appear Normal at 5% Significance Level	#1.10/41/2010/04/doi.
Theta Star	0.87		
nu star	352.6		
Approximate Chi Square Value (.05)	310.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	10.72
Adjusted Chi Square Value	305.5	95% Jackknife UCL	10.79
		95% Standard Bootstrap UCL	10.7
Anderson-Darling Test Statistic	0.57	95% Bootstrap-t UCL	10.95
Anderson-Darling 5% Critical Value	0.738	95% Hall's Bootstrap UCL	11.23
Kolmogorov-Smirnov Test Statistic	0.205	95% Percentile Bootstrap UCL	10.69
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	10.77
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	12.58
		97.5% Chebyshev(Mean, Sd) UCL	13.87
Assuming Gamma Distribution	Forgrammer and the Principle of the Prin	99% Chebyshev(Mean, Sd) UCL	16.41
95% Approximate Gamma UCL	10.9		name of the section o
95% Adjusted Gamma UCL	11.07		destination to the female section
Potential UCL to Use		Use 95% Student's-t UCL	10.79
esult or 1/2 SDL (n-nitrosodiphenylamine)			
	General	Statistics	
	,		
Number of Valid Samples	16	Number of Unique Samples	14

Raw Statistics		Log-transformed Statistics		
Minimum	0.0069		-4.969	
Maximum	0.0434		-3.137	
Mean	0.0102		-4.738	
Median	0.0075	Commission of the Commission o	0.446	
SD	0.0089			
Coefficient of Variation	0.879			
Skewness	3.902		mana . aan Historia Historia Algas Cales	
F	Relevant U	CL Statistics		
Normal Distribution Test		Lognormal Distribution Test		
Shapiro Wilk Test Statistic	0.369	Shapiro Wilk Test Statistic	0.514	
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887	
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level		
Assuming Normal Distribution	No. office age of a special content of the state of the s	Assuming Lognormal Distribution	MENTAL BUTTON BUTTON BUTTON BUTTON	
95% Student's-t UCL	0.0141	95% H-UCL	0.0122	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0144	
95% Adjusted-CLT UCL	0.0162	97.5% Chebyshev (MVUE) UCL	0.0165	
95% Modified-t UCL	0.0144	99% Chebyshev (MVUE) UCL	0.0205	
Gamma Distribution Test		Data Distribution		
k star (bias corrected)	2.914	Data do not follow a Discernable Distribution (0.05	>)	
Theta Star	0.0034			
nu star	93.24		· · · · · · · · · · · · · · · · · · ·	
Approximate Chi Square Value (.05)	71.97	Nonparametric Statistics		
Adjusted Level of Significance	0.0335		0.0138	
Adjusted Chi Square Value	69.85	95% Jackknife UCL	0.0141	
		95% Standard Bootstrap UCL	0.0137	
Anderson-Darling Test Statistic	3.455	95% Bootstrap-t UCL	0.0353	
Anderson-Darling 5% Critical Value	0.743	95% Hall's Bootstrap UCL	0.0281	
Kolmogorov-Smirnov Test Statistic	0.374	95% Percentile Bootstrap UCL	0.0145	
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	0.017	
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.0199	
		97.5% Chebyshev(Mean, Sd) UCL	0.0241	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0324	
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0132 0.0136		the species of the second species of the sec	
30 % Adjusted Gaillina OCL	0.0130			
Potential UCL to Use		Use 95% Student's-t UCL	0.0141	
		or 95% Modified-t UCL	0.0144	
			his of mile 4 ph and a property and	
Result or 1/2 SDL (phenanthrene)	A. 146-876-1111111111111111111111111111111111			
	General			
Number of Valid Samples	16	Number of Unique Samples	15	
Raw Statistics		Log-transformed Statistics	and the state and the state of	
Minimum	0.0076		-4.88	
Maximum	0.508	Maximum of Log Data	-0.677	
Mean	0.0746	_	-3.548	

Relevant UCL Statistics				
Relevant UCL Statistics	we was an explained on the second product of the second participation of the second pa	0.021	SD of log Data	1.383
Relevant UCL Statistics	SD	0.126		***************************************
Relevant UCL Statistics	Coefficient of Variation	1.691		
Normal Distribution Test	Skewness	3.037		
Normal Distribution Test				
Shapiro Wilk Test Statistic   0.583		Relevant U		
Shapiro Wilk Critical Value   0.887		U E03		0.05
Data not Normal at 5% Significance Level				
Assuming Normal Distribution		0.887		U.88
95% Student's-t UCL	Data not Normal at 5% Significance Level	( p. 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 .	Data not Lognormal at 5% Significance Level	
95% Student's-t UCL	Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Modifi	_	N 13		0.24
95% Adjusted-CLT UCL 95% Modified-t UCL 0.134 99% Chebyshev (MVUE) UCL 0.3  Gamma Distribution Test Data Distribution  K star (bias corrected) 0.564 Data do not follow a Discernable Distribution (0.05)  Theta Star 0.132 nu star 18.03  Approximate Chi Square Value (.05) 9.415 Nonparametric Statistics  Adjusted Level of Significance 0.0335 95% CLT UCL 0.13  Adjusted Chi Square Value 8.713 95% Standard Bootstrap UCL 0.13  Anderson-Darling Test Statistic 1.118 95% Standard Bootstrap UCL 0.13  Anderson-Darling 5% Critical Value 0.784 95% Hall's Bootstrap UCL 0.13  Kolmogorov-Smirnov Test Statistic 0.267 95% Percentile Bootstrap UCL 0.13  Kolmogorov-Smirnov 5% Critical Value 0.225 95% BCA Bootstrap UCL 0.15  Data not Gamma Distributed at 5% Significance Level 97.5% Chebyshev(Mean, Sd) UCL 0.2  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.2  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.3  95% Adjusted Gamma UCL 0.143  Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.3  General Statistics  Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics Log-transformed Statistics	and the state of t	0.10		*****************
95% Modified-t UCL		0 152		
Gamma Distribution Test  Restar (bias corrected)				
Raw Statistics   Data do not follow a Discernable Distribution (0.05)   Theta Star   0.132	93% Mounted-LOCE	U. 134	99% Chebysilev (MVOE) OCL	U.33 <sup>2</sup>
Theta Star   0.132   nu star   18.03	Gamma Distribution Test	en marine de comença de la comença de la comença de la comença de la comença de la comença de la comença de la	Data Distribution	
Nonparametric Statistics	k star (bias corrected)	0.564	Data do not follow a Discernable Distribution (0.05	)
Approximate Chi Square Value (.05)   9.415   Nonparametric Statistics	Theta Star	0.132		
Adjusted Level of Significance 0.0335 95% CLT UCL 0.11 Adjusted Chi Square Value 8.713 95% Jackknife UCL 0.11 Addreson-Darling Test Statistic 95% Standard Bootstrap UCL 0.12 Anderson-Darling Test Statistic 1.118 95% Bootstrap-t UCL 0.20 Anderson-Darling 5% Critical Value 0.784 95% Hall's Bootstrap UCL 0.33 Kolmogorov-Smirnov Test Statistic 0.267 95% Percentile Bootstrap UCL 0.13 Kolmogorov-Smirnov 5% Critical Value 0.225 95% BCA Bootstrap UCL 0.15 Bata not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.2  Assuming Gamma Distribution 97.5% Chebyshev(Mean, Sd) UCL 0.2  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.34 95% Adjusted Gamma UCL 0.143 95% Adjusted Gamma UCL 0.154  Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.36  Besult or 1/2 SDL (pyrene)  General Statistics  Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics Log-transformed Statistics	nu star	18.03		
Adjusted Chi Square Value 8.713 95% Jackknife UCL 0.1: 95% Standard Bootstrap UCL 0.1: Anderson-Darling Test Statistic 1.118 95% Bootstrap-t UCL 0.2: Anderson-Darling 5% Critical Value 0.784 95% Hall's Bootstrap UCL 0.3: Kolmogorov-Smirnov Test Statistic 0.267 95% Percentile Bootstrap UCL 0.1: Kolmogorov-Smirnov 5% Critical Value 0.225 95% BCA Bootstrap UCL 0.1: Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.2: Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.2: Assuming Gamma UCL 0.143 95% Adjusted Gamma UCL 0.154  Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.3: esult or 1/2 SDL (pyrene)  General Statistics  Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics Log-transformed Statistics	Approximate Chi Square Value (.05)	9.415	Nonparametric Statistics	***************************************
Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Anderson-Darling 5% Critical Value O.784 Anderson-Darling 5% Critical Value O.784 Solmogorov-Smirnov Test Statistic O.267 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.225 Solmogorov-Smirnov 5% Critical Value O.255 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.255 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.255 Solmogorov-Smirnov 5% Critical Value O.255 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.255 Solmogorov-Smirnov 5% Critical Value O.255 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.267 Solmogorov-Smirnov 5% Critical Value O.27 Solmogorov-Smirnov 5% Critical Value O.28 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critical Value O.29 Solmogorov-Smirnov 5% Critica	Adjusted Level of Significance	0.0335	95% CLT UCL	0.12
Anderson-Darling Test Statistic 1.118 95% Bootstrap-t UCL 0.21 Anderson-Darling 5% Critical Value 0.784 95% Hall's Bootstrap UCL 0.31 Kolmogorov-Smirnov Test Statistic 0.267 95% Percentile Bootstrap UCL 0.13 Kolmogorov-Smirnov 5% Critical Value 0.225 95% BCA Bootstrap UCL 0.15 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.22 Assuming Gamma Distribution 97.5% Chebyshev(Mean, Sd) UCL 0.23 95% Approximate Gamma UCL 0.143 95% Adjusted Gamma UCL 0.154  Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.33  Besult or 1/2 SDL (pyrene)  General Statistics  Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics  Log-transformed Statistics	Adjusted Chi Square Value	8.713	95% Jackknife UCL	0.13
Anderson-Darling 5% Critical Value			95% Standard Bootstrap UCL	0.126
Kolmogorov-Smirnov Test Statistic   0.267   95% Percentile Bootstrap UCL   0.11	Anderson-Darling Test Statistic	1.118	95% Bootstrap-t UCL	0.204
Kolmogorov-Smirnov 5% Critical Value 0.225 95% BCA Bootstrap UCL 0.10  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.20  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.30  95% Approximate Gamma UCL 0.143 95% Adjusted Gamma UCL 0.154  Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.30  General Statistics  Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics Log-transformed Statistics	Anderson-Darling 5% Critical Value	0.784	95% Hall's Bootstrap UCL	0.315
Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.2  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.3  95% Approximate Gamma UCL 0.143  95% Adjusted Gamma UCL 0.154  Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.3  General Statistics  Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics  Log-transformed Statistics	Kolmogorov-Smirnov Test Statistic	0.267	95% Percentile Bootstrap UCL	0.133
Assuming Gamma Distribution  99% Chebyshev(Mean, Sd) UCL  95% Approximate Gamma UCL  95% Adjusted Gamma UCL  0.143  Potential UCL to Use  Use 99% Chebyshev (Mean, Sd) UCL  0.38  Potential UCL to Use  Use 99% Chebyshev (Mean, Sd) UCL  0.38  Potential UCL to Use  Use 99% Chebyshev (Mean, Sd) UCL  0.38  Potential UCL to Use  Use 99% Chebyshev (Mean, Sd) UCL  0.38  Potential UCL to Use  Use 99% Chebyshev (Mean, Sd) UCL  0.38  Potential UCL to Use  Use 99% Chebyshev (Mean, Sd) UCL  0.38  Potential UCL to Use  Use 99% Chebyshev (Mean, Sd) UCL  0.38  Potential UCL to Use  Use 99% Chebyshev (Mean, Sd) UCL  0.38  Potential UCL to Use  Use 99% Chebyshev (Mean, Sd) UCL  0.38  Potential UCL to Use  Use 99% Chebyshev (Mean, Sd) UCL  0.48  Potential UCL to Use  Number of Unique Samples  Use 99% Chebyshev (Mea	Kolmogorov-Smirnov 5% Critical Value	0.225	95% BCA Bootstrap UCL	0.16
Assuming Gamma Distribution  99% Chebyshev(Mean, Sd) UCL  95% Approximate Gamma UCL  95% Adjusted Gamma UCL  0.154  Potential UCL to Use  Use 99% Chebyshev (Mean, Sd) UCL  0.38  Potential UCL to Use  General Statistics  Number of Valid Samples  16  Number of Unique Samples  16  Raw Statistics  Log-transformed Statistics	Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.212
95% Approximate Gamma UCL 0.143 95% Adjusted Gamma UCL 0.154  Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38  esult or 1/2 SDL (pyrene)  General Statistics  Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics Log-transformed Statistics			97.5% Chebyshev(Mean, Sd) UCL	0.272
Potential UCL to Use Use 99% Chebyshev (Mean, Sd) UCL 0.38  esult or 1/2 SDL (pyrene)  General Statistics  Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics  Log-transformed Statistics	Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.388
Potential UCL to Use  Use 99% Chebyshev (Mean, Sd) UCL  0.38  esult or 1/2 SDL (pyrene)  General Statistics  Number of Valid Samples 16  Number of Unique Samples 16  Raw Statistics  Log-transformed Statistics	95% Approximate Gamma UCL	0.143		
esult or 1/2 SDL (pyrene)  General Statistics  Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics Log-transformed Statistics	95% Adjusted Gamma UCL	0.154		
esult or 1/2 SDL (pyrene)  General Statistics  Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics Log-transformed Statistics				
General Statistics  Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics Log-transformed Statistics	Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.388
General Statistics  Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics Log-transformed Statistics				
Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics Log-transformed Statistics	esult or 1/2 SDL (pyrene)			***************************************
Number of Valid Samples 16 Number of Unique Samples 16  Raw Statistics Log-transformed Statistics		General	Statistics	
	Number of Valid Samples	th Painter towards before the control of		16
	Daw Statistics	······································	Log transformed Statistics	
windiffully 0.0075 willimum of Log Data; -4.92		U UUZ3		_/ 02
				-4.92 -0.149
				-3.251
_			SD of log Data	1.632
SD 0.22 Coefficient of Variation 1.697				
Skewness 2.746	Skewness	2.746		r- Markettarowa

	\$1. \$14. AZ		
F	Relevant UC	CL Statistics	z gregore (Coli) Significações
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.617	Shapiro Wilk Test Statistic	0.869
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.227	95% H-UCL	0.729
95% UCLs (Adjusted for Skewness)	0.22/	95% Chebyshev (MVUE) UCL	0.72
95% Adjusted OF Skewness)	0.261	97.5% Chebyshev (MVUE) UCL	0.49
95% Modified-t UCL	0.233	99% Chebyshev (MVUE) UCL	0.71
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.465	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.279		
nu star	14.89		
Approximate Chi Square Value (.05)	7.184	Nonparametric Statistics	AT LONG THE STATE OF THE STATE
Adjusted Level of Significance	0.0335	95% CLT UCL	0.22
Adjusted Chi Square Value	6.582	95% Jackknife UCL	0.22
		95% Standard Bootstrap UCL	0.21
Anderson-Darling Test Statistic	1.081	95% Bootstrap-t UCL	0.33
Anderson-Darling 5% Critical Value	0.794	95% Hall's Bootstrap UCL	0.54
Kolmogorov-Smirnov Test Statistic	0.241	95% Percentile Bootstrap UCL	0.22
Kolmogorov-Smirnov 5% Critical Value	0.227	95% BCA Bootstrap UCL	0.26
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.37
		97.5% Chebyshev(Mean, Sd) UCL	0.474
Assuming Gamma Distribution	0.000	99% Chebyshev(Mean, Sd) UCL	0.67
95% Approximate Gamma UCL	0.269		nem mereleri liber sayabin
95% Adjusted Gamma UCL	0.294		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.67
esult or 1/2 SDL (silver)			
Number of Valid Samples	General S	Number of Unique Samples	14
Raw Statistics		Log-transformed Statistics	W. W. H. L
Minimum	0.0335	Minimum of Log Data	-3.396
Maximum	0.54	Maximum of Log Data	-0.616
Mean	0.172	Mean of log Data	-2.392
Median	0.0448	SD of log Data	1.16
SD	0.184		er-russalistusees atv
Coefficient of Variation	1.07		
Skewness	0.821		
F	Relevant UC	CL Statistics	and the control of th
Normal Distribution Test	ł	Lognormai Distribution Test	
	0.731	Lognormal Distribution Test Shapiro Wilk Test Statistic	0.729
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.731 0.887	Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.729 0.887

A		A 1- 1 1 1 1 1	
Assuming Normal Distribution 95% Student's-t UCL	0.252	Assuming Lognormal Distribution  95% H-UCL	0.44
95% UCLs (Adjusted for Skewness)	0.252	95% Chebyshev (MVUE) UCL	0.44
95% UCLS (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.257	97.5% Chebyshev (MVUE) UCL	0.40
95% Adjusted-CLT OCL	0.257	99% Chebyshev (MVUE) UCL	0.51
95% Modified-LOCE	0.254	99% Criebysnev (MVOE) OCL	0.71
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.792	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.217		
nu star	25.36	·	
Approximate Chi Square Value (.05)	14.88	Nonparametric Statistics	M144.***
Adjusted Level of Significance	0.0335	95% CLT UCL	0.24
Adjusted Chi Square Value	13.98	95% Jackknife UCL	0.25
		95% Standard Bootstrap UCL	0.24
Anderson-Darling Test Statistic	2.15	95% Bootstrap-t UCL	0.27
Anderson-Darling 5% Critical Value	0.767	95% Hall's Bootstrap UCL	0.24
Kolmogorov-Smirnov Test Statistic	0.368	95% Percentile Bootstrap UCL	0.24
Kolmogorov-Smirnov 5% Critical Value	0.222	95% BCA Bootstrap UCL	0.25
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.37
		97.5% Chebyshev(Mean, Sd) UCL	0.45
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.62
95% Approximate Gamma UCL	0.293		
95% Adjusted Gamma UCL	0.312		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.62
It or 1/2 SDL (strontium)			
	General St		15
It or 1/2 SDL (strontium)  Number of Valid Samples	General St	natistics  Number of Unique Samples	15
	***************************************		15
Number of Valid Samples	***************************************	Number of Unique Samples	
Number of Valid Samples Raw Statistics	16	Number of Unique Samples  Log-transformed Statistics	3.49
Number of Valid Samples  Raw Statistics  Minimum	32.8 81.7 44.86	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	3.49 4.40
Number of Valid Samples  Raw Statistics  Minimum  Maximum	32.8 81.7 44.86 39.85	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	3.49 4.40 3.76
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	32.8 81.7 44.86	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	3.49 4.40 3.76
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	32.8 81.7 44.86 39.85 14.43 0.322	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	3.49 4.40 3.76
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	32.8 81.7 44.86 39.85 14.43	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	3.49 4.40 3.76
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	32.8 81.7 44.86 39.85 14.43 0.322	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	15 3.49 4.40 3.76 0.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test	32.8 81.7 44.86 39.85 14.43 0.322 1.805	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test	3.49 4.40 3.76 0.27
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	32.8 81.7 44.86 39.85 14.43 0.322 1.805	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	3.49 4.40 3.76 0.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	32.8 81.7 44.86 39.85 14.43 0.322 1.805	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	3.49 4.40 3.76 0.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	32.8 81.7 44.86 39.85 14.43 0.322 1.805	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	3.49 4.40 3.76 0.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	32.8 81.7 44.86 39.85 14.43 0.322 1.805	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	3.49 4.40 3.76 0.27
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	32.8 81.7 44.86 39.85 14.43 0.322 1.805	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	3.49 4.40 3.76 0.27

95% Adjusted-CLT UCL			
33 / Aujusteu-CET UCE	52.54	97.5% Chebyshev (MVUE) UCL	63.90
95% Modified-t UCL	51.46	99% Chebyshev (MVUE) UCL	75.39
Gamma Distribution Test	amppi januar	Data Distribution	
k star (bias corrected)	10.61	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	4.23		
nu star	339.4		
Approximate Chi Square Value (.05)	297.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	50.8
Adjusted Chi Square Value	293.2	95% Jackknife UCL	51.1
		95% Standard Bootstrap UCL	50.4
Anderson-Darling Test Statistic	1.15	95% Bootstrap-t UCL	57.3
Anderson-Darling 5% Critical Value	0.738	95% Hall's Bootstrap UCL	81.8
Kolmogorov-Smirnov Test Statistic	0.261	95% Percentile Bootstrap UCL	50.6
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	51.9
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	60.5
		97.5% Chebyshev(Mean, Sd) UCL	67.4
Assuming Gamma Distribution	E4 44	99% Chebyshev(Mean, Sd) UCL	80.7
95% Approximate Gamma UCL	51.14		ati eti consulati della della eti eti e
95% Adjusted Gamma UCL	51.92		
Potential UCL to Use	#(/n ************************************	Use 95% Student's-t UCL	51.1
Potential UCL to Use		or 95% Modified-t UCL	51.4
			*************************
Number of Volid Complex	General S		16
Number of Valid Samples	General S	Statistics  Number of Unique Samples	16
Number of Valid Samples Raw Statistics			16
		Number of Unique Samples	
Raw Statistics	16	Number of Unique Samples  Log-transformed Statistics	2.9
Raw Statistics Minimum	16	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	2.9
Raw Statistics Minimum Maximum	16 19.1 36.6	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	2.9 3.6 3.2
Raw Statistics Minimum Maximum Mean	19.1 36.6 25.58	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	2.9 3.6 3.2
Raw Statistics Minimum Maximum Mean Median	19.1 36.6 25.58 23.95	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	2.9 3.6 3.2
Raw Statistics  Minimum  Maximum  Mean  Median  SD	19.1 36.6 25.58 23.95 5.051	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	16 2.9 3.6 3.2 0.1
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	19.1 36.6 25.58 23.95 5.051 0.198	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	2.9 3.6 3.2
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	19.1 36.6 25.58 23.95 5.051 0.198 1.084	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	2.9 3.6 3.2
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	19.1 36.6 25.58 23.95 5.051 0.198 1.084	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	2.9 3.6 3.2 0.1
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	19.1 36.6 25.58 23.95 5.051 0.198 1.084	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test	2.9 3.6 3.2 0.1
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	19.1 36.6 25.58 23.95 5.051 0.198 1.084 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	2.9 3.6 3.2 0.1 0.9 0.9
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level	19.1 36.6 25.58 23.95 5.051 0.198 1.084 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	2.9 3.6 3.2 0.1
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution	19.1 36.6 25.58 23.95 5.051 0.198 1.084 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution	2.9 3.6 3.2 0.1
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	19.1 36.6 25.58 23.95 5.051 0.198 1.084 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	2.9 3.6 3.2 0.1 0.9 0.8
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	19.1 19.1 36.6 25.58 23.95 5.051 0.198 1.084  Relevant UC  0.888 0.887	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	2.9 3.6 3.2 0.1 0.9 0.8 27.8 30.7
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	19.1 36.6 25.58 23.95 5.051 0.198 1.084 Relevant UC 0.888 0.887	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	2.9 3.6 3.2 0.1 0.9 0.8 27.8 30.7
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	19.1 19.1 36.6 25.58 23.95 5.051 0.198 1.084  Relevant UC  0.888 0.887	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	2.9 3.6 3.2 0.1 0.9 0.8 27.8 30.7

			der Ginff
k star (bias corrected)	24.34	Data appear Normal at 5% Significance Level	7 20 22
Theta Star	•		
nu star	778.8		***************************************
Approximate Chi Square Value (.05)	715.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0335	95% CLT UCL	27.65
Adjusted Chi Square Value	708.1	95% Jackknife UCL	27.79
	E E	95% Standard Bootstrap UCL	27.65
Anderson-Darling Test Statistic	0.584	95% Bootstrap-t UCL	28.45
Anderson-Darling 5% Critical Value	0.736	95% Hall's Bootstrap UCL	28.66
Kolmogorov-Smirnov Test Statistic	0.202	95% Percentile Bootstrap UCL	27.66
Kolmogorov-Smirnov 5% Critical Value	0.215	95% BCA Bootstrap UCL	27.93
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	31.08
	<u> </u>	97.5% Chebyshev(Mean, Sd) UCL	33.46
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	38.14
95% Approximate Gamma UCL	27.86		· · · · · · · · · · · · · · · · · · ·
95% Adjusted Gamma UCL	28.13		······································
Potential UCL to Use		Use 95% Student's-t UCL	27.79
tesult or 1/2 SDL (toluene)			
		Statistics	
Number of Valid Samples	16	Number of Unique Samples	16
Raw Statistics	and the state of t	Log-transformed Statistics	**************************************
Minimum	4.4500E-4	Minimum of Log Data	-7.717
Maximum	0.0058	Maximum of Log Data	-5.148
Mean	0.0014	Mean of log Data	-6.833
Median	8.6250E-4	SD of log Data	0.73
SD	0.0013		
Coefficient of Variation	0.937		
Skewness	2.533		
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	<u> </u>	Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.88
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	Maria de la composição de la composição de la composição de la composição de la composição de la composição de
	·····	95% H-UCL	0.00
95% Student's-t UCL	0.0020		
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	0.0020	95% Chebyshev (MVUE) UCL	0.002
	0.0020		
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.0022	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.00
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test	0.0022	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.00
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.0022 0.0020 1.593	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.00
95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL  Gamma Distribution Test  k star (bias corrected)  Theta Star	0.0022 0.0020 1.593 8.9869E-4	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.002 0.003 0.004 ce Level
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected)	0.0022 0.0020 1.593	95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.00

And Production of the programme of the programme beautiful to	En antiqua Sana Tradition of the	from make the control of the control	and appear to the state of the
Adjusted Chi Square Value	34.13	95% Jackknife UCL	0.002
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	0.909	95% Bootstrap-t UCL	0.002
Anderson-Darling 5% Critical Value	0.751	95% Hall's Bootstrap UCL	0.004
Kolmogorov-Smirnov Test Statistic	0.209	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.218	95% BCA Bootstrap UCL	0.002
Data follow Appr. Gamma Distribution at 5% Significar	ice Level	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.003
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.004
95% Approximate Gamma UCL	0.0020		-1
95% Adjusted Gamma UCL	0.0021		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.002
Result or 1/2 SDL (vanadium)  Number of Valid Samples	General	Statistics  Number of Unique Samples	16
Raw Statistics Minimum	9.06	Log-transformed Statistics  Minimum of Log Data	2.204
		_	3.054
Maximum	21.2	Maximum of Log Data	
Mean	13.86	Mean of log Data	2.599
Median	13.45	SD of log Data	0.251
SD	3.523		\$ 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Coefficient of Variation Skewness	0.254 0.54		and decreased the same of the state of the s
	0.01		
	Relevant UC	CL Statistics	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.94	Shapiro Wilk Test Statistic	0.96
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.887
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	15.4	95% H-UCL	15.64
95% UCLs (Adjusted for Skewness)	•	95% Chebyshev (MVUE) UCL	17.67
95% Adjusted-CLT UCL	15.44	97.5% Chebyshev (MVUE) UCL	19.32
95% Modified-t UCL	15.42	99% Chebyshev (MVUE) UCL	22.56
	<del>-</del>		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	13.89	Data appear Normal at 5% Significance Level	nt meneritation of alequat
Theta Star	0.998		i
nu star	444.4		
Approximate Chi Square Value (.05)	396.5	Nonparametric Statistics	<del>4.=///4-11.0=</del> (
Adjusted Level of Significance	0.0335	-	15.31
Adjusted Chi Square Value	391.4	95% Jackknife UCL	15.4
, ajacou on oqualo value		95% Standard Bootstrap UCL	15.26
Anderson-Darling Test Statistic	0.338	95% Bootstrap-t UCL	15.59
Anderson-Darling 5% Critical Value	0.737	95% Hall's Bootstrap UCL	15.42
Kolmogorov-Smirnov Test Statistic	0.737	95% Percentile Bootstrap UCL	15.34
Normbyorov-Smirriov rest Statistic	0.140	3376 Fercendie Bookstap OCL	10.04

and the first of t	l de la companie de la companie de la companie de la companie de la companie de la companie de la companie de	. By The space of the control of the state o	(colorador y maio
Kolmonov Spira 150 Original V	0.045	95% BCA Bootstrap UCL	15 4
Kolmogorov-Smirnov 5% Critical Value	1	•	15.4
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	17.7
		97.5% Chebyshev(Mean, Sd) UCL	19.3
Assuming Gamma Distribution	<b>T</b>	99% Chebyshev(Mean, Sd) UCL	22.6
95% Approximate Gamma UCL	15.53		
95% Adjusted Gamma UCL	15.74		
Potential UCL to Use		Use 95% Student's-t UCL	15.4
sult or 1/2 SDL (zinc)			
	General S	Statistics	
Number of Valid Samples	16	Number of Unique Samples	15
Raw Statistics		Log-transformed Statistics	
Minimum	18	Minimum of Log Data	2.
Maximum	92.6	Maximum of Log Data	4.
Mean	45.36	Mean of log Data	3.
Median	43.6	SD of log Data	0.4
SD	19.88		
Coefficient of Variation	0.438		***********
Skewness	0.681		
	Relevant UC	CL Statistics	Pi, (1975 19-0 19-0 1
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.929	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.887	Shapiro Wilk Critical Value	0.8
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	, H************************************
95% Student's-t UCL	54.07	95% H-UCL	57.
95% UCLs (Adjusted for Skewness)	l	95% Chebyshev (MVUE) UCL	68.
95% Adjusted-CLT UCL	54,44	97.5% Chebyshev (MVUE) UCL	78.
95% Modified-t UCL	54.21	99% Chebyshev (MVUE) UCL	98.
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	4.539	Data appear Normal at 5% Significance Level	
Theta Star	9.992	The approximation of the control of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
nu star	145.3		G-10410040111111
Approximate Chi Square Value (.05)	118.4	Nonparametric Statistics	
Approximate Cni Square Value (.us)  Adjusted Level of Significance	0.0335	95% CLT UCL	53.
	ļ	95% Jackknife UCL	53.: 54.0
Adjusted Chi Square Value	115.7	Į.	53.0
Address	0.000	95% Standard Bootstrap UCL	
Anderson-Darling Test Statistic	0.399	95% Bootstrap-t UCL	55.
Anderson-Darling 5% Critical Value	0.741	95% Hall's Bootstrap UCL	55.0
Kolmogorov-Smirnov Test Statistic	<u> </u>	95% Percentile Bootstrap UCL	53.4
Kolmogorov-Smirnov 5% Critical Value	0.216	95% BCA Bootstrap UCL	54.0
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	67.0
		97.5% Chebyshev(Mean, Sd) UCL	76.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	94.8
95% Approximate Gamma UCL	55.64		

95% Adjusted Gamma UCL	56.97		
Potential UCL to Use		Use 95% Student's-t UCL	54.07

## APPENDIX A-7

BACKGROUND SEDIMENT INTRACOASTAL WATERWAY

	General UCL Statistics	s for Full Da	ta Sets	
User Selected Options				
From File	J:\1352 - Gulfco RI\risk	(\data querie	s oct 07\EPC tables with onehalf DL\ISWE data - JUST BAC	KGROUN
Full Precision	OFF			
Confidence Coefficient	95%			
Number of Bootstrap Operations	2000			
Result or 1/2 SDL (1,2,4-trimethyl	lbonzono)			
result of 112 3DL (1,2,4-timelity)				
n garaggan an again 16 dephalanca again an ar punda an againn ag 18 de beign search gan an an again an again a		General	·	
N	umber of Valid Samples	9	Number of Unique Samples	9
	A. A. T. A.		Log-transformed Statistics	oderlike selesaine errete errete felene
on west	tatistics	14 00000 4		-8.74
		1.6000E-4	Minimum of Log Data	
entenne en retario en en 1800 de la marca de marca de la comparación de la comparación de la comparación de pa	Maximum	0.0039	Maximum of Log Data	-5.544
of the second second second section for the second second second second section section (second section section second section second section second section second section se		9.1039E-4 3.6200E-4	Mean of log Data	-7.594 1.007
ad to the control of the transport of the control o			SD of log Data	1.097
o An 1978 selection and an anti-man and a few selections of selections and selection and an anti-manufacture a	SD	0.0012		
	Coefficient of Variation	1.33		
	Skewness	2.32		- m parteres in better of parters
ен жан жаны анган Абантан на Камана жаны ана на се е е е е е е е е е е е е е е е е е е	an a andrew a fin later than 1840 the afficient from a semi-range per federal constitution of a 1870 con-	Relevant UC	CL Statistics	
Normal Dist	tribution Test		Lognormal Distribution Test	
Sh	apiro Wilk Test Statistic	0.677	Shapiro Wilk Test Statistic	0.913
Shi	apiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.829
Data not Normal at 5	5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Nor	mal Distribution		Assuming Lognormal Distribution	
THE RESERVE OF THE PROPERTY OF	95% Student's-t UCL	0.0016	95% H-UCL	0.0036
95% UCLs (Adju	sted for Skewness)		95% Chebyshev (MVUE) UCL	0.0022
and the state of t	95% Adjusted-CLT UCL	0.0019	97.5% Chebyshev (MVUE) UCL	0.0028
	95% Modified-t UCL	0.0017	99% Chebyshev (MVUE) UCL	0.004
Gamma Dic	tribution Test	indicated the state of the finite or the state of the sta	Data Distribution	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Qanina Dis	k star (bias corrected)	0.725	Data appear Gamma Distributed at 5% Significance L	evel
employed and the property of the control of the con	Theta Star			
e manual territorium manual manual manual menteriorium menteriorium del manual menteriorium menteriorium menter	nu star	13.06		nggan penahipa ti professoran diperatas
Annroximate	Chi Square Value (.05)	5.932	Nonparametric Statistics	
	ed Level of Significance	0.0231	95% CLT UCL	0.0015
	usted Chi Square Value	4.957	95% Jackknife UCL	0.0016
united the state of the state o	and on oqualo value	1,507	95% Standard Bootstrap UCL	0.0015
Anders	on-Darling Test Statistic	0.564	95% Bootstrap-t UCL	0.0033
	Parling 5% Critical Value	<u> </u>	95% Hall's Bootstrap UCL	0.0043
	v-Smirnov Test Statistic		95% Percentile Bootstrap UCL	0.0015
_	nirnov 5% Critical Value	0.287	95% BCA Bootstrap UCL	0.0018
Data appear Gamma Distrib		<u> </u>	95% Chebyshev(Mean, Sd) UCL	0.0026
			97.5% Chebyshev(Mean, Sd) UCL	0.0034
Assuming Gan	nma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0049
	proximate Gamma UCL	0.002	Coro Cincopyriovi, induity Gay God	2.3010
· · · · · · · · · · · · · · · · · · ·	Adjusted Gamma UCL	0.0024		and the second of the
JU //		5.50£T		

General Statistics	Potential UCL to Use		Use 95% Approximate Gamma UCL	0.00
Number of Valid Samples   9   Number of Unique Samples   9	oult or 1/2 SDL (1.4-dichlorobenzene)			
Number of Valid Samples   9   Number of Unique Samples   9				
Rew Statistics		~		
Minimum   3,4050E-4   Minimum of Log Data   5,49	Number of Valid Samples	9	Number of Unique Samples	9
Maximum	Raw Statistics		Log-transformed Statistics	
Mean of log Data   6.91   Mean of log Data	Minimum	3.4050E-4	Minimum of Log Data	-7.98
Median   7,7000E-4   SD of log Data   0.9-	Maximum	0.0041	Maximum of Log Data	-5.49
Relevant UCL Statistics	Mean	0.0014	Mean of log Data	-6.91
Relevant UCL Statistics	Median	7.7000E-4	SD of log Data	0.9
Relevant UCL Statistics	SD	0.0013		
Normal Distribution Test	Coefficient of Variation	0.936		
Normal Distribution Test	Skewness	1.198		
Shapiro Wilk Test Statistic   0.817   Shapiro Wilk Test Statistic   0.99   Shapiro Wilk Test Statistic   0.99   Shapiro Wilk Critical Value   0.829   Shapiro Wilk Critical Value   0.829   Shapiro Wilk Critical Value   0.829   Data appear Lognormal at 5% Significance Level		Relevant UC	L Statistics	***************************************
Shapiro Wilk Critical Value   Data appear Lognormal at 5% Significance Level	Normal Distribution Test		Lognormal Distribution Test	***************************************
Data appear Lognormal at 5% Significance Level	Shapiro Wilk Test Statistic	0.817	Shapiro Wilk Test Statistic	0.9
Assuming Normal Distribution 95% Student's+t UCL 0.0023 95% Chebyshev (MVUE) UCL 0.002 95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 0.002 95% Adjusted-CLT UCL 0.0024 97.5% Chebyshev (MVUE) UCL 0.002 95% Modified+t UCL 0.0023 99% Chebyshev (MVUE) UCL 0.002 95% Modified+t UCL 0.0023 99% Chebyshev (MVUE) UCL 0.002  Gamma Distribution Test Data Distribution  k star (bias corrected) 1.015 Data appear Gamma Distributed at 5% Significance Level  Theta Star 0.0014 nu star 18.26  Approximate Chi Square Value (.05) 9.58 Nonparametric Statistics  Adjusted Level of Significance 0.0231 95% CLT UCL 0.002  Adjusted Level of Significance 0.0231 95% Standard Bootstrap UCL 0.002  Anderson-Darling Test Statistic 0.467 95% Bootstrap+ UCL 0.002  Anderson-Darling S% Critical Value 0.736 95% Hall's Bootstrap UCL 0.002  Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.002  Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap+ UCL 0.002  Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.002  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.0028 95% Adjusted Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0028	Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82
95% Student's-t UCL	Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	]
95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Significance Level  Data appear Gamma Distributed at 5% Significance Level 95% Significance UCL 95% Bootstrap UCL 95% Bootstrap UCL 95% Bootstrap UCL 95% Bootstrap UCL 0.00 Anderson-Darling 5% Critical Value 9.736 95% BCA Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Precentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 9.285 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 95% Approximate Gamma UCL 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0028	Assuming Normal Distribution		Assuming Lognormal Distribution	tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti tanti ta
95% Adjusted-CLT UCL 95% Modified-t UCL 95% Modified-t UCL 95% Modified-t UCL 0.0023 99% Chebyshev (MVUE) UCL 0.00  Gamma Distribution Test Data Distribution  k star (bias corrected) 1.015 Data appear Gamma Distributed at 5% Significance Level  Theta Star 0.0014 nu star 18.26  Approximate Chi Square Value (.05) 9.58 Nonparametric Statistics  Adjusted Level of Significance 0.0231 95% CLT UCL 0.00  Adjusted Chi Square Value 8.288 95% Jackknife UCL 95% Standard Bootstrap UCL 0.00  Anderson-Darling Test Statistic 0.467 95% Bootstrap+t UCL 0.00  Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00  Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00  Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00  95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0028	95% Student's-t UCL	0.0023	95% H-UCL	0.00
Standard Bootstrap UCL   0.002   99% Chebyshev (MVUE) UCL   0.002	95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test  k star (blas corrected)  Theta Star  0.0014  nu star  18.26  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  8.288  Monparametric Statistics  Adjusted Chi Square Value  8.288  95% Standard Bootstrap UCL  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Nolmogorov-Smirnov Test Statistic  Coll  Kolmogorov-Smirnov 5% Critical Value  Data appear Gamma Distributed at 5% Significance Level  95% Chebyshev(Mean, Sd) UCL  Assuming Gamma Distribution  95% Adjusted Gamma UCL  0.0028  95% Adjusted Gamma UCL  0.0028	95% Adjusted-CLT UCL	0.0024	97.5% Chebyshev (MVUE) UCL	0.00
k star (blas corrected) 1.015 Theta Star 0.0014 nu star 18.26 Approximate Chi Square Value (.05) 9.58 Adjusted Level of Significance 0.0231 Adjusted Chi Square Value 8.288 Adjusted Chi Square Value 8.288 Adjusted Chi Square Value 8.288 Anderson-Darling Test Statistic 0.467 Anderson-Darling 5% Critical Value 0.736 Anderson-Darling 5% Critical Value 0.736 Kolmogorov-Smirnov Test Statistic 0.21 Solution 1.21 Solution 1.021 Assuming Gamma Distribution  95% Adjusted Gamma UCL 0.008 95% Adjusted Gamma UCL 0.008	95% Modified-t UCL	0.0023	99% Chebyshev (MVUE) UCL	0.00
Nonparametric Statistics   Nonparametric Statistics	Gamma Distribution Test		Data Distribution	
Theta Star   0.0014		1.015	Data appear Gamma Distributed at 5% Significance L	_evel
Approximate Chi Square Value (.05) 9.58 Nonparametric Statistics  Adjusted Level of Significance 0.0231 95% CLT UCL 0.00 Adjusted Chi Square Value 8.288 95% Jackknife UCL 0.00 Anderson-Darling Test Statistic 0.467 95% Bootstrap UCL 0.00 Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Column 2000-Smirnov 5% Critical Value 0.285 95% Chebyshev(Mean, Sd) UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032				teripetekkomusetaiteere
Adjusted Level of Significance 0.0231 95% CLT UCL 0.00 Adjusted Chi Square Value 8.288 95% Jackknife UCL 0.00 95% Standard Bootstrap UCL 0.00 Anderson-Darling Test Statistic 0.467 95% Bootstrap-t UCL 0.00 Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032	nu star	18.26		
Adjusted Chi Square Value 8.288 95% Jackknife UCL 0.00 95% Standard Bootstrap UCL 0.00 Anderson-Darling Test Statistic 0.467 95% Bootstrap-t UCL 0.00 Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032	Approximate Chi Square Value (.05)	9.58	Nonparametric Statistics	
Anderson-Darling Test Statistic 0.467 95% Bootstrap UCL 0.00 Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032	Adjusted Level of Significance	0.0231	95% CLT UCL	0.00
Anderson-Darling Test Statistic 0.467 95% Bootstrap-t UCL 0.00 Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032	Adjusted Chi Square Value	8.288	95% Jackknife UCL	0.00
Anderson-Darling 5% Critical Value 0.736 95% Hall's Bootstrap UCL 0.00 Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 97.5% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032			95% Standard Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic 0.21 95% Percentile Bootstrap UCL 0.00 Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00 Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00 97.5% Chebyshev(Mean, Sd) UCL 0.00 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032		0.467		
Kolmogorov-Smirnov 5% Critical Value 0.285 95% BCA Bootstrap UCL 0.00  Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.00  97.5% Chebyshev(Mean, Sd) UCL 0.00  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00  95% Approximate Gamma UCL 0.0028  95% Adjusted Gamma UCL 0.0032	_			
Data appear Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL 0.00  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00  95% Approximate Gamma UCL 0.0028  95% Adjusted Gamma UCL 0.0032			·	rana ranamasana ana
97.5% Chebyshev(Mean, Sd) UCL 0.00  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00  95% Approximate Gamma UCL 0.0028  95% Adjusted Gamma UCL 0.0032	_			
Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.00 95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032	Data appear Gamma Distributed at 5% Significance	Level		
95% Approximate Gamma UCL 0.0028 95% Adjusted Gamma UCL 0.0032				
95% Adjusted Gamma UCL 0.0032			99% Chebyshev(Mean, Sd) UCL	0.00
	, ,			·····
Potential UCL to Use Use 95% Approximate Gamma UCL 0.00	95% Adjusted Gamma UCL	0.0032		entre estate en entre en entre en
	Potential UCL to Use		Use 95% Approximate Gamma UCL	0.00

Number of Valid Occurs	General S		0
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	
Minimum	2.5250E-4	Minimum of Log Data	-8.284
Maximum		Maximum of Log Data	-6.02
Mean	0.0011	Mean of log Data	-7.04
Median	0.0011	SD of log Data	0.879
SD	8.4810E-4		
Coefficient of Variation	0.718		
Skewness	0.348		
	Relevant UCI	L Statistics	<b>P</b>
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.89	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	[	Shapiro Wilk Critical Value	0.829
Data appear Normal at 5% Significance Level	1 1	Data appear Lognormal at 5% Significance Level	***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	0.0017	95% H-UCL	0.003
95% UCLs (Adjusted for Skewness)	1 0.0017	95% Chebyshev (MVUE) UCL	0.002
95% Adjusted-CLT UCL	0.0016	97.5% Chebyshev (MVUE) UCL	0.003
95% Modified-t UCL	0.0017	99% Chebyshev (MVUE) UCL	0.004
	L		The state of the s
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.288	Data appear Normal at 5% Significance Level	the man at the man and a second
Theta Star	9.1690E-4		
nu star	23.19		Homedaskirkinkura
Approximate Chi Square Value (.05)	13.23	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	0.001
Adjusted Chi Square Value	11.68	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	0.402	95% Bootstrap-t UCL	0.001
Anderson-Darling 5% Critical Value	0.731	95% Hali's Bootstrap UCL	0.001
Kolmogorov-Smirnov Test Statistic	1	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.283	95% BCA Bootstrap UCL	0.001
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.002
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.003
95% Approximate Gamma UCL	0.0020		
95% Adjusted Gamma UCL	0.0023		- married and the boundary processing
Potential UCL to Use		Use 95% Student's-t UCL	0.001
esult or 1/2 SDL (4,4'-ddt)			
	General St	atistics	
Number of Valid Samples	9	Number of Unique Samples	8
	dimining enduring to		
Raw Statistics	i i	Log-transformed Statistics	

	<b>}</b> ##   #################################		5299A. DAYS
Movimum	5.7000E-4	Maximum of Log Data	-7.47
	1.5550E-4	Mean of log Data	-8.988
	1.0450E-4	SD of log Data	0.576
	1.5569E-4	SS 51 log Pata	0,07
Coefficient of Variation			
Skewness			***************************************
Ciomios	1		
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	lautanaya estanasa
Shapiro Wilk Test Statistic	<u>j</u>	Shapiro Wilk Test Statistic	0.53
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	2.5201E-4	95% H-UCL	2.4166E
95% UCLs (Adjusted for Skewness)	*	95% Chebyshev (MVUE) UCL	2.6745E-
95% Adjusted-CLT UCL	2.9597E-4	97.5% Chebyshev (MVUE) UCL	
95% Modified-t UCL		99% Chebyshev (MVUE) UCL	
Gamma Distribution Test	1.007	Data Distribution	)_\
k star (bias corrected)	I	Data do not follow a Discernable Distribution (0.0	15)
	9.1636E-5		di
nu star			
Approximate Chi Square Value (.05)	18.92	Nonparametric Statistics	0 1000F
Adjusted Level of Significance	0.0231	1	
Adjusted Chi Square Value	17.02	95% Jackknife UCL	
	0.000	95% Standard Bootstrap UCL	
Anderson-Darling Test Statistic	<u> </u>	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value		95% Hall's Bootstrap UCL	
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL	
Kolmogorov-Smirnov 5% Critical Value	Į.	95% BCA Bootstrap UCL	
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	
		97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	
Assuming Gamma Distribution	0.51005.4	99% Chebysnev(Mean, Sd) UCL	0.7 188E
95% Approximate Gamma UCL 95% Adjusted Gamma UCL			
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	3.8172E-
esult or 1/2 SDL (aluminum)			
Suit of 172 ODE (aluminum)	General	Statistics	***************************************
Number of Valid Samples	ç	Number of Unique Samples	9
	L		
Raw Statistics	1700	Log-transformed Statistics	
Minimum		Minimum of Log Data	8.46
Maximum		Maximum of Log Data	9.99
Mean		Mean of log Data	9.25
Median		SD of log Data	0.60
SD	6892		***************************************
Coefficient of Variation	0.564		

	NASARONA (S.S.		Saffred Trick
Skewness	0.403		
	<u> </u>		~bPa
	Relevant UC	CL Statistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.877	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.8
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	əl
Assuming Normal Distribution		Assuming Lognormal Distribution	n den germaden fran a del n Landen accesa de la co
95% Student's-t UCL	16486	95% H-UCL	21311
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	23251
95% Adjusted-CLT UCL	16322	97.5% Chebyshev (MVUE) UCL	28003
95% Modified-t UCL	16537	99% Chebyshev (MVUE) UCL	37338
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.326	Data appear Normal at 5% Significance Level	***************************************
Theta Star	5252		***********************
nu star	41.86		
Approximate Chi Square Value (.05)	28.03	Nonparametric Statistics	······································
Adjusted Level of Significance	0.0231	95% CLT UCL	15992
Adjusted Chi Square Value	25.67	95% Jackknife UCL	16486
		95% Standard Bootstrap UCL	15701
Anderson-Darling Test Statistic	0.414	95% Bootstrap-t UCL	16891
Anderson-Darling 5% Critical Value	0.726	95% Hall's Bootstrap UCL	15366
Kolmogorov-Smirnov Test Statistic	0.176	95% Percentile Bootstrap UCL	15822
Kolmogorov-Smirnov 5% Critical Value	0.281	95% BCA Bootstrap UCL	16030
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	22228
		97.5% Chebyshev(Mean, Sd) UCL	26561
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	35073
95% Approximate Gamma UCL	18240		
95% Adjusted Gamma UCL	19920		
Potential UCL to Use		Use 95% Student's-t UCL	16486
ult or 1/2 SDL (antimony)			
	General S	Statistics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	n f Plant of the personal by Forger by
Minimum	1.68	Minimum of Log Data	0.5
Maximum	7.33	Maximum of Log Data	1.99
Mean	4.023	Mean of log Data	1.2
Median	2.83	SD of log Data	0.5
SD	2.215		
Coefficient of Variation	0.55		
Skewness	0.488		
F	Relevant UC	L Statistics	***************************************
Normal Distribution Test	The same of the sa	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.866	Shapiro Wilk Test Statistic	0.89

Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
and the state of t		Data appear Logitorina at 3% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	5.396	95% H-UCL	6.66
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	7.40
95% Adjusted-CLT UCL	5.366	97.5% Chebyshev (MVUE) UCL	8.87
95% Modified-t UCL	5.416	99% Chebyshev (MVUE) UCL	11.74
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.544	Data appear Normal at 5% Significance Level	
Theta Star	1.58 <b>1</b>		
nu star	45.79		
Approximate Chi Square Value (.05)	31.27	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	5.23
Adjusted Chi Square Value	28.76	95% Jackknife UCL	5.39
		95% Standard Bootstrap UCL	5.17
Anderson-Darling Test Statistic	0.505	95% Bootstrap-t UCL	5.62
Anderson-Darling 5% Critical Value	0.726	95% Hall's Bootstrap UCL	5.01
Kolmogorov-Smirnov Test Statistic	0.233	95% Percentile Bootstrap UCL	5.18
Kolmogorov-Smirnov 5% Critical Value	0.281	95% BCA Bootstrap UCL	5.20
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	7.24
		97.5% Chebyshev(Mean, Sd) UCL	8.63
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	11.37
95% Approximate Gamma UCL	5.892		
95% Adjusted Gamma UCL	6.407		
Potential UCL to Use		Use 95% Student's-t UCL	5.39
ult or 1/2 SDL (arsenic)			
	General S	_ :	
Number of Valid Samples	9	Number of Unique Samples	9
Therefore the transfer the transfer the transfer that the transfer that the transfer the transfer that the transfer the transfer that the		Log-transformed Statistics	
Raw Statistics			
Raw Statistics Minimum	2.36	Minimum of Log Data	0.85
	2.36 9.62	Minimum of Log Data Maximum of Log Data	
Minimum		)	2.26
Minimum Maximum	9.62	Maximum of Log Data	0.85 2.26 1.62 0.56
Minimum Maximum Mean	9.62 5.813	Maximum of Log Data  Mean of log Data	2.26 1.62
Minimum Maximum Mean Median	9.62 5.813 4.63	Maximum of Log Data Mean of log Data	2.26 1.62
Minimum Maximum Mean Median SD	9.62 5.813 4.63 3.107	Maximum of Log Data Mean of log Data	2.26 1.62
Minimum Maximum Mean Mean Median SD Coefficient of Variation Skewness	9.62 5.813 4.63 3.107 0.534 0.351	Maximum of Log Data Mean of log Data	2.26 1.62
Minimum Maximum Mean Mean Median SD Coefficient of Variation Skewness	9.62 5.813 4.63 3.107 0.534 0.351	Maximum of Log Data  Mean of log Data  SD of log Data	2.26 1.62
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	9.62 5.813 4.63 3.107 0.534 0.351	Maximum of Log Data  Mean of log Data  SD of log Data	2.26 1.62 0.56
Minimum Maximum Mean Mean Median SD Coefficient of Variation Skewness	9.62 5.813 4.63 3.107 0.534 0.351	Maximum of Log Data  Mean of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test	2.26 1.62
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test Shapiro Wilk Test Statistic	9.62 5.813 4.63 3.107 0.534 0.351 Relevant UC	Maximum of Log Data  Mean of log Data  SD of log Data  SL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	2.26 1.62 0.56
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	9.62 5.813 4.63 3.107 0.534 0.351 Relevant UC	Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	2.26 1.62 0.56

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	10.71
	7.040		
95% Adjusted-CLT UCL	1	97.5% Chebyshev (MVUE) UCL	12.8
95% Modified-t UCL	7.759	99% Chebyshev (MVUE) UCL	16.9
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.603	Data appear Normal at 5% Significance Level	
. Theta Star	2.233		***************************************
nu star	46.86		
Approximate Chi Square Value (.05)	32.15	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	7.5
Adjusted Chi Square Value	29.61	95% Jackknife UCL	7.7
		95% Standard Bootstrap UCL	7.4
Anderson-Darling Test Statistic	0.558	95% Bootstrap-t UCL	8.0
Anderson-Darling 5% Critical Value	0.725	95% Hall's Bootstrap UCL	7.1
Kolmogorov-Smirnov Test Statistic	0.223	95% Percentile Bootstrap UCL	7.4
Kolmogorov-Smirnov 5% Critical Value	0.281	95% BCA Bootstrap UCL	7.5
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	10.3
		97.5% Chebyshev(Mean, Sd) UCL	12.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	16.1
95% Approximate Gamma UCL	8.473		
95% Adjusted Gamma UCL	9.202		
Potential UCL to Use		Use 95% Student's-t UCL	7.7
	General Stati	silcs	
Number of Valid Samples	General Stati	stics  Number of Unique Samples	9
Number of Valid Samples			9
Number of Valid Samples Raw Statistics		Number of Unique Samples  Log-transformed Statistics	CATALON CONTRACTOR OF THE PARTY
	9	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	4.7
Raw Statistics	9	Number of Unique Samples  Log-transformed Statistics	4.7
Raw Statistics Minimum	9	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	4.7 5.6
Raw Statistics Minimum Maximum	9 111 280	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	4.7 5.6 5.3
Raw Statistics Minimum Maximum Mean	9 111 280 209.7	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	4.7 5.6 5.3
Raw Statistics  Minimum  Maximum  Mean  Median	9 111 280 209.7 201	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	4.7 5.6 5.3
Raw Statistics  Minimum  Maximum  Mean  Median  SD	9 1111 280 209.7 201 47.73	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	4.7 5.6 5.3
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	9 111 280 209.7 201 47.73 0.228	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	4.7 5.6 5.3
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	9 111 280 209.7 201 47.73 0.228 -0.775	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	4.7 5.6 5.3
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test	9 111 280 209.7 201 47.73 0.228 -0.775	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	4.7 5.6 5.3 0.2
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	9 1111 280 209.7 201 47.73 0.228 -0.775	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	4.7 5.6 5.3 0.2
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test	9 1111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	4.7 5.6 5.3 0.2 0.8
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level	9 1111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  satistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	4.7 5.6 5.3 0.2 0.8
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution	9 1111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data	4.7 5.6 5.3 0.2 0.8 0.8
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	9 1111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	4.7 5.6 5.3 0.2 0.8 0.8
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution	9 1111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	4.7 5.6 5.3 0.2 0.8 0.8
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	9 1111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL St	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	4.7 5.6 5.3 0.2 0.8 0.8 1
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	9 1111 280 209.7 201 47.73 0.228 -0.775 Relevant UCL Si 0.93 0.829 239.2	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	4.7 5.6 5.3 0.2 0.8 0.8 1 253.9 291.1

k star (bias corrected)	12.22	Data appear Normal at 5% Significance Level	
Theta Star	17.15		
nu star	220		
Approximate Chi Square Value (.05)	186.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	235.8
Adjusted Chi Square Value	180.2	95% Jackknife UCL	239.2
		95% Standard Bootstrap UCL	233.9
Anderson-Darling Test Statistic	0.517	95% Bootstrap-t UCL	234.2
Anderson-Darling 5% Critical Value	0.721	95% Hall's Bootstrap UCL	233.5
Kolmogorov-Smirnov Test Statistic	0.25	95% Percentile Bootstrap UCL	233
Kolmogorov-Smirnov 5% Critical Value	0.279	95% BCA Bootstrap UCL	230.4
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	279
		97.5% Chebyshev(Mean, Sd) UCL	309
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	368
95% Approximate Gamma UCL	247.1		THE THE PERSON NAMED OF TH
95% Adjusted Gamma UCL	256		Transmin Andrews
Potential UCL to Use		Use 95% Student's-t UCL	239.2
Popult or 1/2 SDL (horse/byllucrosthon)			
Result or 1/2 SDL (benzo(b)fluoranthene)	General S		
Number of Volid Complex			9
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	in and hearth and before a stope of stay
Minimum	0.0045	Minimum of Log Data	-5.394
Maximum	0.0369	Maximum of Log Data	-3.3
Mean	0.0087	Mean of log Data	-5.045
Median	0.0054	SD of log Data	0.66
SD	0.0106		
Coefficient of Variation	1.213		
Skewness	2.99		and the state of t
	Relevant UCI		
Normal Distribution Test	2.465	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.429	Shapiro Wilk Test Statistic	0.51
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0153	95% H-UCL	0.01
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.01
95% Adjusted-CLT UCL	0.0183	97.5% Chebyshev (MVUE) UCL	0.01
95% Modified-t UCL	0.0159	99% Chebyshev (MVUE) UCL	0.02
	i		
Gamma Distribution Test		Data Distribution	
	1.273		5)
k star (bias corrected)		Data Distribution  Data do not follow a Discernable Distribution (0.05)	5)
k star (bias corrected) Theta Star	0.0068		5)
k star (bias corrected)			5)

	Lancing and		· ·
Adjusted Chi Square Value	11.49	95% Jackknife UCL	0.015
		95% Standard Bootstrap UCL	0.014
Anderson-Darling Test Statistic	2.375	95% Bootstrap-t UCL	0.111
Anderson-Darling 5% Critical Value	0.732	95% Hall's Bootstrap UCL	0.077
Kolmogorov-Smirnov Test Statistic	0.493	95% Percentile Bootstrap UCL	0.015
Kolmogorov-Smirnov 5% Critical Value	0.283	95% BCA Bootstrap UCL	0.016
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.024
		97.5% Chebyshev(Mean, Sd) UCL	0.030
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.043
95% Approximate Gamma UCL	0.0153		
95% Adjusted Gamma UCL	0.0174		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.024
Result or 1/2 SDL (beryllium)	General S		
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	
Minimum	0.32	Minimum of Log Data	-1.139
Maximum	1.32	Maximum of Log Data	0.278
Mean	0.766	Mean of log Data	-0.403
Median	0.69	SD of log Data	0.566
SD	0.403		
Coefficient of Variation	0.527		
Skewness	0.315		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.882	Shapiro Wilk Test Statistic	0.898
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.829
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
A			
Assuming Normal Distribution  95% Student's-t UCL	1.010	Assuming Lognormal Distribution	1.27
	1.016	95% H-UCL	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.412
95% Adjusted-CLT UCL	1.002	97.5% Chebyshev (MVUE) UCL	1.69
95% Modified-t UCL	1.018	99% Chebyshev (MVUE) UCL	2.237
Gamma Distribution Test		Data Distribution	£44-444-444-444-444-444-444-444-444-444
k star (bias corrected)	2.633	Data appear Normal at 5% Significance Level	( <del>-</del>
Theta Star	0.291		
nu star	47.4		14 ( 1 <del> </del>
Approximate Chi Square Value (.05)	32.6	Nonparametric Statistics	Tart 1 1000 100 100 100 100 100 100 100 100
Adjusted Level of Significance	0.0231	95% CLT UCL	0.987
Adjusted Chi Square Value	30.03	95% Jackknife UCL	1.016
		95% Standard Bootstrap UCL	0.976
Anderson-Darling Test Statistic	0.424	95% Bootstrap-t UCL	1.035
Anderson-Darling 5% Critical Value	0.725	95% Hall's Bootstrap UCL	0.942
Kolmogorov-Smirnov Test Statistic	0.18	95% Percentile Bootstrap UCL	0.979

ay ang kang ang kang ang ang ang ang ang ang ang ang ang	44. 40. 1997.		ing military
Kolmogorov-Smirnov 5% Critical Value	0.281	95% BCA Bootstrap UCL	0.9
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	1.3
Dam appear damma Distributed at 5% Organicance	Level	97.5% Chebyshev(Mean, Sd) UCL	1.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.1
95% Approximate Gamma UCL	1.113	33 /6 Chebyshev(Mean, 3d) OCL	د
95% Adjusted Gamma UCL	1.113		
30 % rajusted damina oct	1.200		
Potential UCL to Use		Use 95% Student's-t UCL	1.0
sult or 1/2 SDL (boron)			***************************************
	General St	atistics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	<b></b>
Minimum	13.3	Minimum of Log Data	2.
Maximum	47.9	Maximum of Log Data	3.
Mean	27.64	Mean of log Data	3.
Median	26	SD of log Data	0.4
SD	12.82		
Coefficient of Variation	0.464		
Skewness	0.532		
	Relevant UCL	Statistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.911	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.8
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	35.59	95% H-UCL	40.
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	46.
95% Adjusted-CLT UCL	35.48	97.5% Chebyshev (MVUE) UCL	55.
95% Modified-t UCL	35.71	99% Chebyshev (MVUE) UCL	71.
an entre protection of the state of the stat			
Gamma Distribution Test		Data Distribution	<b>y</b>
Gamma Distribution Test k star (bias corrected)	3.598	Data Distribution  Data appear Normal at 5% Significance Level	P. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Gamma Distribution Test  k star (bias corrected)  Theta Star		Data Distribution  Data appear Normal at 5% Significance Level	
k star (bias corrected) Theta Star	7.684		
k star (bias corrected) Theta Star nu star		Data appear Normal at 5% Significance Level	
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	7.684 64.76		34.
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	7.684 64.76 47.24	Data appear Normal at 5% Significance Level  Nonparametric Statistics	
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	7.684 64.76 47.24 0.0231	Data appear Normal at 5% Significance Level  Nonparametric Statistics  95% CLT UCL	35.
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	7.684 64.76 47.24 0.0231	Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL	35.5 34.2
k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value	7.684 64.76 47.24 0.0231 44.1	Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	35.3 34.3 37.3
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	7.684 64.76 47.24 0.0231 44.1	Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL  95% Bootstrap-t UCL	35. 34. 37. 35.
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	7.684 64.76 47.24 0.0231 44.1 0.301 0.723	Nonparametric Statistics  95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	35.3 34.3 37.2 35.3
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	7.684 64.76 47.24 0.0231 44.1 0.301 0.723 0.159 0.28	Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL  95% Bootstrap-t UCL  95% Hall's Bootstrap UCL  95% Percentile Bootstrap UCL	35.5 34.2 37.2 35.3 34.6
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	7.684 64.76 47.24 0.0231 44.1 0.301 0.723 0.159 0.28	Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Bootstrap UCL  95% Hall's Bootstrap UCL  95% Percentile Bootstrap UCL	34.6 35.5 34.2 35.1 34.6 46.2 54.3
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	7.684 64.76 47.24 0.0231 44.1 0.301 0.723 0.159 0.28	Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL  95% Bootstrap-t UCL  95% Percentile Bootstrap UCL  95% BCA Bootstrap UCL	35.5 34.2 37.2 35. 34.6 34.6 46.2

95% Adjusted Gamma UCL	40.59		
Potential UCL to Use		Use 95% Student's-t UCL	35.59
esult or 1/2 SDL (carbon disulfide)			
	General		***************************************
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	
	8.8000E-5	Minimum of Log Data	-9.338
Maximum	0.0084	Maximum of Log Data	-4.778
Mean	0.0015	Mean of log Data	-7.728
	4.0500E-4	SD of log Data	1.636
SD	0.0027		
Coefficient of Variation	1.789		
Skewness	2.348		
CROWNESS	2.010		the factors and the state of th
	Relevant UC	CL Statistics	*****************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.612	Shapiro Wilk Test Statistic	0.888
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.829
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0032	95% H-UCL	0.028
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.004
95% Adjusted-CLT UCL	0.0038	97.5% Chebyshev (MVUE) UCL	0.005
95% Modified-t UCL	0.0034	99% Chebyshev (MVUE) UCL	0.008
Gamma Distribution Test	5.44	Data Distribution	
k star (bias corrected) Theta Star	0.41 0.0037	Data appear Gamma Distributed at 5% Significance I	_evel
nu stari	7.375		
Approximate Chi Square Value (.05)	2.378	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	0.003
Adjusted Chi Square Value	1.825	95% Jackknife UCL	0.003
		95% Standard Bootstrap UCL	0.003
Anderson-Darling Test Statistic	0.768	95% Bootstrap-t UCL	0.015
Anderson-Darling 5% Critical Value	0.77	95% Hall's Bootstrap UCL	0.011
Kolmogorov-Smirnov Test Statistic	0.256	95% Percentile Bootstrap UCL	0.003
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	0.003
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	0.005
		97.5% Chebyshev(Mean, Sd) UCL	0.007
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.007
95% Approximate Gamma UCL	0.0048		
95% Adjusted Gamma UCL	0.0040		V-14
	<del></del>		
Potential UCL to Use	ì	ı	

4 annual and an annual comment of the properties of the properties of the second comment	General	Statistics					
Number of Valid Samples	9	Number of Unique Samples	9				
Raw Statistics	\$1. \$1.1 \$1.4 m = 140 \$1.4 \$1.4 m = 1.0 m = 1.	Log-transformed Statistics	<b>.</b>				
Minimum	5.81	Minimum of Log Data	1.76				
Maximum	22.5	Maximum of Log Data	3.11				
Mean	12.81	Mean of log Data	2.43				
Median	11.1	SD of log Data	0.52				
SD	6.512						
Coefficient of Variation	0.508						
Skewness	0.444						
			***************************************				
F  Normal Distribution Test	Relevant U	CL Statistics  Lognormal Distribution Test					
Shapiro Wilk Test Statistic	0.89	Shapiro Wilk Test Statistic	0.9				
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82				
Data appear Normal at 5% Significance Level	0.020	Data appear Lognormal at 5% Significance Level					
	too ta a taman Vertus Cultus quita qu		##************************************				
Assuming Normal Distribution	de grange era general er dy fakter syn er general er e an	Assuming Lognormal Distribution					
95% Student's-t UCL	16.85	95% H-UCL	20.2				
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	22.82				
95% Adjusted-CLT UCL	16.73	97.5% Chebyshev (MVUE) UCL	27.14				
95% Modified-t UCL	16.9	99% Chebyshev (MVUE) UCL	35.62				
Gamma Distribution Test		Data Distribution	a has accepted to a supplied upon				
k star (bias corrected)	2.941	Data appear Normal at 5% Significance Level					
Theta Star	4.356		***************************************				
nu star	52.95						
Approximate Chi Square Value (.05)	37.23	Nonparametric Statistics					
Adjusted Level of Significance	0.0231	95% CLT UCL	16.38				
Adjusted Chi Square Value	34.47	95% Jackknife UCL	16.85				
		95% Standard Bootstrap UCL	16.18				
Anderson-Darling Test Statistic	0.391	95% Bootstrap-t UCL	17.33				
Anderson-Darling 5% Critical Value	0.724	95% Hall's Bootstrap UCL	15.96				
Kolmogorov-Smirnov Test Statistic	0.167	95% Percentile Bootstrap UCL	16.21				
Kolmogorov-Smirnov 5% Critical Value	0.28	95% BCA Bootstrap UCL	16.55				
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	22.28				
	************************************	97.5% Chebyshev(Mean, Sd) UCL	26.37				
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	34.41				
95% Approximate Gamma UCL	18.22						
95% Adjusted Gamma UCL	19.68		-				
Potential UCL to Use		Use 95% Student's-t UCL	16.85				
sult or 1/2 SDL (cis-1,2-dichloroethene)							
			ACTOR   APRIL   AREA				

Raw Statistics		Log-transformed Statistics	Ž
Minimum	1 02005 4	Minimum of Log Data	-9.191
Maximum	0.0284	Maximum of Log Data	-3.561
Mean	0.0284	Mean of log Data	-7.775
	2.3050E-4	SD of log Data	1.763
SD	0.0093	OD Of Tog Dutie	1.700
Coefficient of Variation	2.706		
Skewness	2.995	· ·	
	Relevant UCI	Statistics	
Normal Distribution Test	veievant ooi	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.415	Shapiro Wilk Test Statistic	0.777
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.829
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0092	95% H-UCL	0.051
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.005
95% Adjusted-CLT UCL	0.0119	97.5% Chebyshev (MVUE) UCL	0.006
95% Modified-t UCL	0.0097	99% Chebyshev (MVUE) UCL	0.01
4			
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.29	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0119		
nu star	5.211		······································
Approximate Chi Square Value (.05)	1.251	Nonparametric Statistics	on the other country to the country of the country
Adjusted Level of Significance	0.0231	95% CLT UCL	0.008
Adjusted Chi Square Value	0.892	95% Jackknife UCL	0.009
		95% Standard Bootstrap UCL	0.008
Anderson-Darling Test Statistic	1.687	95% Bootstrap-t UCL	0.189
Anderson-Darling 5% Critical Value	0.803	95% Hall's Bootstrap UCL	0.106
Kolmogorov-Smirnov Test Statistic	0.384	95% Percentile Bootstrap UCL	0.009
Kolmogorov-Smirnov 5% Critical Value	0.301	95% BCA Bootstrap UCL	0.012
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.017
		97.5% Chebyshev(Mean, Sd) UCL	0.022
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.034
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0144		
			***************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.034
Recommended U	ICL exceeds	the maximum observation	
	General St	tatistics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics	9	Log-transformed Statistics	
Minimum	3.32	Minimum of Log Data	1.2
Maximum	11.8	Maximum of Log Data	2.468
INITITITITI	11.0		<b>—</b> , 100

Median	5.92	SD of log Data	0.48
SD	3.165		
Coefficient of Variation	0.473		
Skewness	0.508		
	Dolovant II	Ol Statistica	
Normal Distribution Test	Relevant O	CL Statistics  Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.904	Shapiro Wilk Test Statistic	0.92
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	8.66	95% H-UCL	9.99
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	11.45
95% Adjusted-CLT UCL	8.624	97.5% Chebyshev (MVUE) UCL	13.5
95% Modified-t UCL	8.69	99% Chebyshev (MVUE) UCL	17.53
Gamma Distribution Test	41.74° - 48.1444, T T-2 T40° 514 ( 14° 544 81) handan i'an	Data Distribution	
k star (bias corrected)	3.458	Data appear Normal at 5% Significance Level	
Theta Star	1.937		
nu star	62.24		
Approximate Chi Square Value (.05)	45.09	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.0231	95% CLT UCL	8.43
Adjusted Chi Square Value	42.03	95% Jackknife UCL	8.66
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	95% Standard Bootstrap UCL	8.39
Anderson-Darling Test Statistic	0.361	95% Bootstrap-t UCL	9.07
Anderson-Darling 5% Critical Value	0.723	95% Hall's Bootstrap UCL	8.42
Kolmogorov-Smirnov Test Statistic	0.171	95% Percentile Bootstrap UCL	8.37
Kolmogorov-Smirnov 5% Critical Value	0.28	95% BCA Bootstrap UCL	8.62
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	11.3
	hand belle better better better better better better better better better better better better better better b	97.5% Chebyshev(Mean, Sd) UCL	13.29
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	17.2
95% Approximate Gamma UCL	9.245		
95% Adjusted Gamma UCL	9.918		
Potential UCL to Use		Use 95% Student's-t UCL	8.66
esult or 1/2 SDL (copper)			
	General	Statistics	**************************************
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	······································
Minimum	2.68	Minimum of Log Data	0.98
Maximum	16.8	Maximum of Log Data	2.82
Mean	8.138	Mean of log Data	1.90
Median	6.87	SD of log Data	0.67
SD	5.165		
Coefficient of Variation	0.635		***************************************
Skewness	0.626		

		williwiń
levant UC	CL Statistics	
	•	0.93
0.829		0.82
	Data appear Lognormal at 5% Significance Level	***************************************
	Assuming Lognormal Distribution	
11.34	95% H-UCL	15.71
	95% Chebyshev (MVUE) UCL	16.4
11.35	97.5% Chebyshev (MVUE) UCL	19.95
11.4	99% Chebyshev (MVUE) UCL	26.94
	Data Distribution	
1.895		94.4444.474
		<b></b>
	Nonnarametric Statistics	
	•	10.97
. 1464		11.34
13.7		10.88
0.21		12.32
		11.26
	·	10.93
		11.27
1	·	15.64
ve		
		18.89
	99% Chebysnev(Mean, Sd) UCL	25.27
14.09		
	Use 95% Student's-t UCL	11.34
General S	Statistics	
9	Number of Unique Samples	9
The state of the s	Log-transformed Statistics	
440	Minimum of Log Data	8.91
7900	Maximum of Log Data	10.24
496	Mean of log Data	9.59
5000	SD of log Data	0.51
097		
0.491		
0.325		
evant LIC	I Statistics	
Svain OC		
0880		0.90
U.00J	Onaphio wilk rest statistic	0.50
0.829	Shapiro Wilk Critical Value	0.82
G	0.903 0.829  11.34  11.35 11.4  1.895 4.294 34.11 21.76 0.0231 19.7  0.31 0.728 0.177 0.282 vel  12.76 14.09  340 900 496 000 097 0.491 0.325	Lognormal Distribution Test

	<u></u>		
Assuming Normal Distribution		Assuming Lognormal Distribution	Act 2012/05/2012 107 \$4* \$4\$ \$4\$ \$4\$ \$4\$ \$1\$
95% Student's-t UCL	21515	95% H-UCL	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	
95% Adjusted-CLT UCL		97.5% Chebyshev (MVUE) UCL	34648
95% Modified-t UCL	21563	99% Chebyshev (MVUE) UCL	45392
Gamma Distribution Test		Data Distribution	/
k star (bias corrected)	3.072	Data appear Normal at 5% Significance Level	
Theta Star	5370		
nu star	55.3		
Approximate Chi Square Value (.05)	39.21	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	20935
Adjusted Chi Square Value	36.37	95% Jackknife UCL	21515
		95% Standard Bootstrap UCL	20682
Anderson-Darling Test Statistic	0.415	95% Bootstrap-t UCL	22181
Anderson-Darling 5% Critical Value	0.724	95% Hall's Bootstrap UCL	20333
Kolmogorov-Smirnov Test Statistic	0.177	95% Percentile Bootstrap UCL	20913
Kolmogorov-Smirnov 5% Critical Value	0.28	95% BCA Bootstrap UCL	21189
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	28260
		97.5% Chebyshev(Mean, Sd) UCL	33351
Assuming Gamma Distribution	· ·	99% Chebyshev(Mean, Sd) UCL	43351
95% Approximate Gamma UCL	23264		
95% Adjusted Gamma UCL	25080		
Potential UCL to Use		Use 95% Student's-t UCL	21515
			70 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.
ult or 1/2 SDL (lead)	Consol Si		
ult or 1/2 SDL (lead)  Number of Valid Samples	General Si	tatistics  Number of Unique Samples	9
Number of Valid Samples	y	Number of Unique Samples	
Number of Valid Samples Raw Statistics	9	Number of Unique Samples  Log-transformed Statistics	9
Number of Valid Samples  Raw Statistics  Minimum	5.34	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	9
Number of Valid Samples  Raw Statistics  Minimum  Maximum	5.34 14.5	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	9 1.67 2.67
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	5.34 14.5 9.587	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	9 1.67 2.67 2.19
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	5.34 14.5 9.587 9.2	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	9 1.67 2.67
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	5.34 14.5 9.587 9.2 3.603	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	9 1.67 2.60 2.19
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation	5.34 14.5 9.587 9.2 3.603 0.376	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	9 1.67 2.60 2.19
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	5.34 14.5 9.587 9.2 3.603	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	9 1.67 2.60 2.19
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	5.34 14.5 9.587 9.2 3.603 0.376	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	9 1.67 2.67 2.19
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test	9 5.34 14.5 9.587 9.2 3.603 0.376 0.161	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	9 1.67 2.67 2.19 0.39
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	9 5.34 14.5 9.587 9.2 3.603 0.376 0.161 Relevant UCL 0.898	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	9 1.67 2.67 2.19 0.39
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test	9 5.34 14.5 9.587 9.2 3.603 0.376 0.161	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	9 1.67 2.67 2.19 0.39 0.90 0.82
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level	9 5.34 14.5 9.587 9.2 3.603 0.376 0.161 Relevant UCL 0.898	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	9 1.67 2.67 2.19 0.39 0.90 0.82
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  I  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	9 5.34 14.5 9.587 9.2 3.603 0.376 0.161 Relevant UCL 0.898	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution	9 1.67 2.67 2.19 0.39 0.90 0.82
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  I  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution	9 5.34 14.5 9.587 9.2 3.603 0.376 0.161 Relevant UCL	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	9 1.67 2.67 2.19 0.39 0.90 0.82

	Distantian de		MATERIAL S
DEV Modified + LICI	11.83	99% Chebyshev (MVUE) UCL	22.23
95% Modified-t UCL	11.03	99% Chebyshev (WVOE) OCL	22.23
Gamma Distribution Test	•	Data Distribution	***************************************
k star (bias corrected)	5.179	Data appear Normal at 5% Significance Level	
Theta Star	1.851		
nu star	93.21		
Approximate Chi Square Value (.05)	71.95	Nonparametric Statistics	
Adjusted Level of Significance	0.0231		11.56
Adjusted Chi Square Value	68.02	95% Jackknife UCL	11.82
		95% Standard Bootstrap UCL	11.48
Anderson-Darling Test Statistic	0.417	95% Bootstrap-t UCL	12.11
Anderson-Darling 5% Critical Value	0.722	95% Hall's Bootstrap UCL	11.28
Kolmogorov-Smirnov Test Statistic	0.182	95% Percentile Bootstrap UCL	11.45
Kolmogorov-Smirnov 5% Critical Value	0.28	95% BCA Bootstrap UCL	11.54
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	14.82
		97.5% Chebyshev(Mean, Sd) UCL	17.09
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	21.54
95% Approximate Gamma UCL	12.42	, , , , , , , , , , , , , , , , , , , ,	
95% Adjusted Gamma UCL	13.14		
Potential UCL to Use		Use 95% Student's-t UCL	11.82
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics			
naw clausics		Logstransformed Statistics	**************************************
	7 29	Log-transformed Statistics Minimum of Log Data	1 98
Minimum	7.29 44.6	Minimum of Log Data	
Minimum Maximum	44.6	Minimum of Log Data Maximum of Log Data	3.79
Minimum Maximum Mean	44.6 21.4	Minimum of Log Data Maximum of Log Data Mean of log Data	3.79 2.85
Minimum Maximum Mean Median	44.6 21.4 17.1	Minimum of Log Data Maximum of Log Data	3.79 2.85
Minimum Maximum Mean Median SD	44.6 21.4 17.1 14.41	Minimum of Log Data Maximum of Log Data Mean of log Data	3.79 2.85
Minimum Maximum Mean Median	44.6 21.4 17.1 14.41 0.673	Minimum of Log Data Maximum of Log Data Mean of log Data	3.79 2.85
Minimum Maximum Mean Median SD Coefficient of Variation	44.6 21.4 17.1 14.41	Minimum of Log Data Maximum of Log Data Mean of log Data	1.98 3.79 2.85 0.69
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	44.6 21.4 17.1 14.41 0.673 0.724	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	3.79 2.85
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test	44.6 21.4 17.1 14.41 0.673 0.724	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test	3.79 2.85 0.69
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	44.6 21.4 17.1 14.41 0.673 0.724	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	3.79 2.85
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	44.6 21.4 17.1 14.41 0.673 0.724	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	3.79 2.85 0.69 0.91 0.82
Minimum Maximum Mean Median SD Coefficient of Variation Skewness Normal Distribution Test Shapiro Wilk Test Statistic	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	3.79 2.85 0.69 0.91 0.82
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	3.79 2.85 0.69 0.91 0.82
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution	0.91 0.82
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	3.79 2.85 0.69 0.91 0.82
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	3.79 2.85 0.69 0.91 0.82 42.41 43.59
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	0.91 0.82 42.41 43.59
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829	Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	0.91 0.82 42.41 43.59
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log	3.79 2.85 0.69 0.91 0.82
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829 30.33	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log	0.91 0.82 42.41 43.59
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	44.6 21.4 17.1 14.41 0.673 0.724 Relevant UC 0.868 0.829	Minimum of Log Data Maximum of Log Data Mean of log Data SD of log	0.9° 0.82  42.4° 43.59 53.19

Result or 1/2 SDL (manganese)   Seminary Value   SD   Seminary Value   SD   Seminary Value   SD   Seminary Value   SD   SD   SD   SD   SD   SD   SD   S	Tana ay 6, 9744 57 6	or emiliaring at marker (presentation), the modern Languages of the community makers resident them.	Control of the end	Telephone Segue Telephone   Telephone Telephone Telephone Telephone Telephone Telephone Telephone Maria Telephone Telephon	CELAN man den ki mi
Approximate Chi Square Value (0.8)   19.78   Nonparametric Statistics			21.62		
Adjusted Level of Significance   0.023		•	ł	Nannarametria Ct-41-41	
Adjusted Chi Square Value				•	20.2
Anderson-Darling Test Statistics		-			
Anderson-Darrling Test Statistic		Aujusted Citi Square Value	17.03		
Anderson-Darling 5% Critical Value   0.728   95% Half's Bootstrap UCL   30.14		Andorson Dorling Toot Statistic	U 201	·	
Result or 1/2 SDL (mangenese)	of the spirit of the spirit, and to the street of the street of the			· !	
Noting   Section   Secti					
Data appear Gamma Distributed at 5% Significance   Level   95% Chebyshev(Mean, Sd) UCL   42.33   97.5% Chebyshev(Mean, Sd) UCL   51.39   13.95   13.		<del>-</del>		·	
Assuming Gamma Distribution   97.5% Chebyshev(Mean, Sr) UCL   51.39	Data a	_			
Assuming Gamma Distribution   99% Chebyshev(Mean, Sd) UCL   69.18	Pala (	Appear daming Distributed at 3% Significance	reac!		
95% Adjusted Gamma UCL   34.22   37.96   37.		Assuming Commo Distribution			-
Potential UCL to Use		-	24 22	33 / Onebysitev(Medil, 30) UCL	U3.10
Potential UCL to Use   Use 95% Student's-t UCL   30.33		• • • • • • • • • • • • • • • • • • • •			
		93 /0 Aujusteu Gamma OCL	37.30		
Raw Statistics	ikerder Brans I I de 1 de 1 de 1 de 1 de 1 de 1 de 1	Potential UCL to Use		Use 95% Student's-t UCL	30.33
Number of Valid Samples   9	Result or 1	'2 SDL (manganese)			
Number of Valid Samples   9					
Raw Statistics			General		
Minimum         212         Minimum of Log Data         5.357           Maximum         442         Maximum of Log Data         6.091           Mean         330.7         Mean of log Data         5.767           Median         321         SD of log Data         0.284           SD         88.99         Coefficient of Variation         0.269           Skewness         -0.147         Skewness         -0.147           Relevant UCL Statistics           Normal Distribution Test         Lognormal Distribution Test         Lognormal Distribution Test         0.829           Shapiro Wilk Test Statistic         0.829         Shapiro Wilk Critical Value         0.829           Data appear Normal at 5% Significance Level         Data appear Lognormal at 5% Significance Level         0.829           Assuming Normal Distribution         Assuming Lognormal Distribution         406.9           95% Student's-t UCL         385.8         95% H-UCL         406.9           95% UCLs (Adjusted for Skewness)         95% Chebyshev (MVUE) UCL         468.4           95% Modified-t UCL         385.6         99% Chebyshev (MVUE) UCL         644.6           Gamma Distribution Test         Data Distribution           <		Number of Valid Samples	9	Number of Unique Samples	9
Maximum         442         Maximum of Log Data o	diig-pro	Raw Statistics		Log-transformed Statistics	The state of the s
Mean of log Data   5.767		Minimum	212	Minimum of Log Data	5.357
Median   SD   88.99     SD of log Data   0.284	***************************************	Maximum	442	Maximum of Log Data	6.091
Relevant UCL Statistics   Relevant UCL Statistics   Relevant UCL Statistics   Relevant UCL Statistics   Lognormal Distribution Test   Lognormal Distribution Test   Shapiro Wilk Test Statistic   0.909   Shapiro Wilk Critical Value   0.829   Shapiro Wilk Critical Value   0.829   Shapiro Wilk Critical Value   0.829   Data appear Normal at 5% Significance Level   Data appear Lognormal Distribution   Assuming Lognormal Distribution   95% Student's-t UCL   385.8   95% Chebyshev (MVUE) UCL   468.4		Mean	330.7	Mean of log Data	5.767
Coefficient of Variation   O.269   Skewness   -0.147	· (46)	Median	321	SD of log Data	0.284
Relevant UCL Statistics   Normal Distribution Test   Lognormal Distribution Test   Shapiro Wilk Test Statistic   0.909   Shapiro Wilk Test Statistic   0.829   Shapiro Wilk Critical Value   0.829   Shapiro Wilk Critical Value   0.829   Data appear Normal at 5% Significance Level   Data appear Lognormal at 5% Significance Level   Data appear Lognormal Distribution   Assuming Lognormal Distribution   95% Student's-t UCL   385.8   95% H-UCL   406.9   95% UCLs (Adjusted for Skewness)   95% Chebyshev (MVUE) UCL   468.4   95% Adjusted-CLT UCL   377.9   97.5% Chebyshev (MVUE) UCL   527.8   95% Modified-t UCL   385.6   99% Chebyshev (MVUE) UCL   644.6   Gamma Distribution Test   Data Distribution   K star (bias corrected)   9.817   Data appear Normal at 5% Significance Level   Theta Star   33.68   nu star   176.7   Approximate Chi Square Value (.05)   147   Nonparametric Statistics   Adjusted Level of Significance   0.0231   95% Jackknife UCL   379.5   Adjusted Chi Square Value   141.2   95% Jackknife UCL   385.8		SD	88.99		
Normal Distribution Test   Lognormal Distribution Test   Shapiro Wilk Test Statistic   0.909   Shapiro Wilk Test Statistic   0.829   Shapiro Wilk Critical Value   0.829   Shapiro Wilk Critical Value   0.829   Data appear Normal at 5% Significance Level   Data appear Lognormal at 5% Significance Level      Assuming Normal Distribution   Assuming Lognormal Distribution		Coefficient of Variation	0.269		
Normal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Shapiro Wilk Critical Value O.829  Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% UCLs (Adjusted-CLT UCL 95% Modified-t UCL 385.6  Gamma Distribution Test  Data appear Normal at 5% Significance Level  Assuming Lognormal Distribution 95% Chebyshev (MVUE) UCL 406.9  95% UCLs (Adjusted-CLT UCL 377.9 97.5% Chebyshev (MVUE) UCL 527.8 95% Modified-t UCL 385.6  Gamma Distribution Test Data Distribution  k star (bias corrected) 7 Data appear Normal at 5% Significance Level  Theta Star nu star 176.7  Approximate Chi Square Value (.05) Adjusted Level of Significance 0.0231 95% CLT UCL 385.8		Skewness	-0.147		
Normal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Shapiro Wilk Critical Value O.829  Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% UCLs (Adjusted-CLT UCL 95% Modified-t UCL 385.6  Gamma Distribution Test  Data appear Normal at 5% Significance Level  Assuming Lognormal Distribution 95% Chebyshev (MVUE) UCL 468.4 95% Adjusted-CLT UCL 377.9 97.5% Chebyshev (MVUE) UCL 527.8 95% Modified-t UCL 385.6  Gamma Distribution Test Data Distribution  k star (bias corrected) 9.817 Data appear Normal at 5% Significance Level  Theta Star nu star 176.7  Approximate Chi Square Value (.05) Adjusted Level of Significance 0.0231 95% CLT UCL 385.8		I	Relevant UO	CL Statistics	
Shapiro Wilk Critical Value 0.829  Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 385.8 95% Chebyshev (MVUE) UCL 468.4  95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 527.8  95% Modified-t UCL 385.6 99% Chebyshev (MVUE) UCL 644.6  Gamma Distribution Test Data Distribution  k star (bias corrected) 9.817 Data appear Normal at 5% Significance Level  Theta Star 33.68  nu star 176.7  Approximate Chi Square Value (.05) 147 Nonparametric Statistics  Adjusted Level of Significance 0.0231 95% CLT UCL 379.5  Adjusted Chi Square Value 141.2 95% Jackknife UCL 385.8		Normal Distribution Test		Lognormal Distribution Test	***************************************
Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL   385.8   95% H-UCL   406.9  95% UCLs (Adjusted for Skewness)   95% Chebyshev (MVUE) UCL   468.4  95% Adjusted-CLT UCL   377.9   97.5% Chebyshev (MVUE) UCL   527.8  95% Modified-t UCL   385.6   99% Chebyshev (MVUE) UCL   644.6  Gamma Distribution Test   Data Distribution  k star (bias corrected)   9.817   Data appear Normal at 5% Significance Level  Theta Star   33.68   nu star   176.7  Approximate Chi Square Value (.05)   147   Nonparametric Statistics  Adjusted Level of Significance   0.0231   95% CLT UCL   379.5  Adjusted Chi Square Value   141.2   95% Jackknife UCL   385.8		Shapiro Wilk Test Statistic	0.909	Shapiro Wilk Test Statistic	0.899
Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL   385.8   95% H-UCL   406.9  95% UCLs (Adjusted for Skewness)   95% Chebyshev (MVUE) UCL   468.4  95% Adjusted-CLT UCL   377.9   97.5% Chebyshev (MVUE) UCL   527.8  95% Modified-t UCL   385.6   99% Chebyshev (MVUE) UCL   644.6  Gamma Distribution Test   Data Distribution  k star (bias corrected)   9.817   Data appear Normal at 5% Significance Level  Theta Star   33.68   nu star   176.7  Approximate Chi Square Value (.05)   147   Nonparametric Statistics  Adjusted Level of Significance   0.0231   95% CLT UCL   379.5  Adjusted Chi Square Value   141.2   95% Jackknife UCL   385.8		Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.829
95% Student's-t UCL         385.8         95% H-UCL         406.9           95% UCLs (Adjusted for Skewness)         95% Chebyshev (MVUE) UCL         468.4           95% Adjusted-CLT UCL         377.9         97.5% Chebyshev (MVUE) UCL         527.8           95% Modified-t UCL         385.6         99% Chebyshev (MVUE) UCL         644.6           Gamma Distribution Test         Data Distribution           K star (bias corrected)         9.817         Data appear Normal at 5% Significance Level           Theta Star         33.68         33.68         Nonparametric Statistics           Approximate Chi Square Value (.05)         147         Nonparametric Statistics           Adjusted Level of Significance         0.0231         95% CLT UCL         379.5           Adjusted Chi Square Value         141.2         95% Jackknife UCL         385.8			***************************************	Data appear Lognormal at 5% Significance Leve	
95% Student's-t UCL         385.8         95% H-UCL         406.9           95% UCLs (Adjusted for Skewness)         95% Chebyshev (MVUE) UCL         468.4           95% Adjusted-CLT UCL         377.9         97.5% Chebyshev (MVUE) UCL         527.8           95% Modified-t UCL         385.6         99% Chebyshev (MVUE) UCL         644.6           Gamma Distribution Test         Data Distribution           K star (bias corrected)         9.817         Data appear Normal at 5% Significance Level           Theta Star         33.68         33.68         Nonparametric Statistics           Approximate Chi Square Value (.05)         147         Nonparametric Statistics           Adjusted Level of Significance         0.0231         95% CLT UCL         379.5           Adjusted Chi Square Value         141.2         95% Jackknife UCL         385.8	neval. Hara data da anno 1971				
95% UCLs (Adjusted for Skewness)         95% Chebyshev (MVUE) UCL         468.4           95% Adjusted-CLT UCL         377.9         97.5% Chebyshev (MVUE) UCL         527.8           95% Modified-t UCL         385.6         99% Chebyshev (MVUE) UCL         644.6           Gamma Distribution Test         Data Distribution           k star (bias corrected)         9.817         Data appear Normal at 5% Significance Level           Theta Star         33.68         33.68           nu star         176.7         Nonparametric Statistics           Approximate Chi Square Value (.05)         147         Nonparametric Statistics           Adjusted Level of Significance         0.0231         95% CLT UCL         379.5           Adjusted Chi Square Value         141.2         95% Jackknife UCL         385.8		Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Adjusted-CLT UCL         377.9         97.5% Chebyshev (MVUE) UCL         527.8           95% Modified-t UCL         385.6         99% Chebyshev (MVUE) UCL         644.6           Gamma Distribution Test         Data Distribution           k star (bias corrected)         9.817         Data appear Normal at 5% Significance Level           Theta Star         33.68         33.68           nu star         176.7         Nonparametric Statistics           Adjusted Chi Square Value (.05)         147         Nonparametric Statistics           Adjusted Chi Square Value         141.2         95% Jackknife UCL         385.8		95% Student's-t UCL	385.8	95% H-UCL	406.9
Gamma Distribution Test  R star (bias corrected)  Data Distribution  R star (bias corrected)  Data appear Normal at 5% Significance Level  Theta Star  33.68  nu star  176.7  Approximate Chi Square Value (.05)  Adjusted Level of Significance  0.0231  Adjusted Chi Square Value  141.2  95% Jackknife UCL  385.6  99% Chebyshev (MVUE) UCL  644.6  Data Distribution  Data appear Normal at 5% Significance Level  Nonparametric Statistics  95% CLT UCL  379.5		95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	468.4
Gamma Distribution Test  Restar (bias corrected) 9.817  Theta Star 33.68  nu star 176.7  Approximate Chi Square Value (.05) 147  Adjusted Level of Significance 0.0231  Adjusted Chi Square Value 141.2  Data Distribution  Data Distribution  Nonparametric Significance Level  Nonparametric Statistics  95% CLT UCL 379.5  385.8		95% Adjusted-CLT UCL	377.9	97.5% Chebyshev (MVUE) UCL	527.8
k star (bias corrected) 9.817 Data appear Normal at 5% Significance Level  Theta Star 33.68 nu star 176.7 Approximate Chi Square Value (.05) 147 Nonparametric Statistics Adjusted Level of Significance 0.0231 Adjusted Chi Square Value 141.2 95% Jackknife UCL 385.8		95% Modified-t UCL	385.6	99% Chebyshev (MVUE) UCL	644.6
k star (bias corrected) 9.817 Data appear Normal at 5% Significance Level  Theta Star 33.68 nu star 176.7 Approximate Chi Square Value (.05) 147 Nonparametric Statistics Adjusted Level of Significance 0.0231 Adjusted Chi Square Value 141.2 95% Jackknife UCL 385.8	w	Gamma Distribution Test		Data Distribution	· · · · · · · · · · · · · · · · · · ·
Theta Star         33.68           nu star         176.7           Approximate Chi Square Value (.05)         147         Nonparametric Statistics           Adjusted Level of Significance         0.0231         95% CLT UCL         379.5           Adjusted Chi Square Value         141.2         95% Jackknife UCL         385.8	***************************************		9.817		
nu star 176.7  Approximate Chi Square Value (.05) 147  Adjusted Level of Significance 0.0231  Adjusted Chi Square Value 141.2  Nonparametric Statistics  95% CLT UCL 379.5  385.8	***************************************	**************************************			
Approximate Chi Square Value (.05) 147 Nonparametric Statistics  Adjusted Level of Significance 0.0231 95% CLT UCL 379.5  Adjusted Chi Square Value 141.2 95% Jackknife UCL 385.8					
Adjusted Level of Significance 0.0231 95% CLT UCL 379.5  Adjusted Chi Square Value 141.2 95% Jackknife UCL 385.8	·····			Nonparametric Statistics	
Adjusted Chi Square Value 141.2 95% Jackknife UCL 385.8				-	379.5
, , , , , , , , , , , , , , , , , , , ,				95% Standard Bootstrap UCL	376.9

	VS. Vástvá V		A single of the body of the second se
Anderson-Darling Test Statistic	0.414	95% Bootstrap-t UCL	383.3
Anderson-Darling 5% Critical Value	0.721	95% Hall's Bootstrap UCL	371.3
Kolmogorov-Smirnov Test Statistic	0.197	95% Percentile Bootstrap UCL	379.1
Kolmogorov-Smirnov 5% Critical Value	0.279	95% BCA Bootstrap UCL	377.7
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	460
		97.5% Chebyshev(Mean, Sd) UCL	515.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	625.8
95% Approximate Gamma UCL	397.6		
95% Adjusted Gamma UCL	413.7	·	
Potential UCL to Use		Use 95% Student's-t UCL	385.8
esult or 1/2 SDL (mercury)			
	General :	Statistics	
Number of Valid Samples	9	Number of Unique Samples	8
Raw Statistics	50-40-64-11-14-14-14-14-14-14-14-14-14-14-14-14	Log-transformed Statistics	
Minimum	0.0065	Minimum of Log Data	-5.036
Maximum	0.05	Maximum of Log Data	-2.996
Mean	0.0176	Mean of log Data	-4.227
Median	0.016	SD of log Data	0.61
SD	0.0132		A-1944-04-10-1449-044-04-0-4-40-04-04-04-04-04-04-04-04-0
Coefficient of Variation	0.753		tern eteken melen merkken mek
· Skewness	2.163		
Heresen inductive communicative estimation and the contractive con	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.752	Shapiro Wilk Test Statistic	0.94
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	1
Assuming Normal Distribution		Assuming Lognormal Distribution	d=d
95% Student's-t UCL	0.0258	95% H-UCL	0.03
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.03
95% Adjusted-CLT UCL	0.0282	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.0263	99% Chebyshev (MVUE) UCL	0.05
Gamma Distribution Test	,	Data Distribution	ender er de l'économic acom
k star (bias corrected)	1.962	Data appear Gamma Distributed at 5% Significance	Level
Theta Star	0.0089		
nu star	35.32		·····
Approximate Chi Square Value (.05)	22.73	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	0.02
Adjusted Chi Square Value	20.62	95% Jackknife UCL	0.02
		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	0.431	95% Bootstrap-t UCL	0.03
Anderson-Darling 5% Critical Value	0.727	95% Hall's Bootstrap UCL	0.05
Kolmogorov-Smirnov Test Statistic	0.184	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.282	95% BCA Bootstrap UCL	0.02
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.0

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		97.5% Chebyshev(Mean, Sd) UCL	0.04
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.04
95% Approximate Gamma UCL	0.0273		0.00
95% Adjusted Gamma UCL	0.0301		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.02
T GOTHAL GOL to GSE		Ose 30% Apploximate daimin ooc	0.02
esult or 1/2 SDL (molybdenum)	(NI, 17, 18, 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18		dogodosti i dastalona
	General	Statistics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	0.16	Minimum of Log Data	-1.833
Maximum	0.35	Maximum of Log Data	-1.05
Mean	0.241	Mean of log Data	-1.45
Median	0.24	SD of log Data	0.28
SD	0.0675		
Coefficient of Variation	0.28		
Skewness	0.35		
	Relevant UC	CL Statistics	***************************************
Normal Distribution Test	elle die en en en en eine en de de gebeurg gebeurg gewende eine gew	Lognormal Distribution Test	214411HW414HW41
Shapiro Wilk Test Statistic	0.936	Shapiro Wilk Test Statistic	0.94
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.82
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	Pietro est Home
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	0.283	95% H-UCL	0.29
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.34
95% Adjusted-CLT UCL	0.281	97.5% Chebyshev (MVUE) UCL	0.38
95% Modified-t UCL	0.283	99% Chebyshev (MVUE) UCL	0.46
Gamma Distribution Test	***************************************	Data Distribution	Mayor Marie (al Ingresio Artist
k star (bias corrected)	9.681	Data appear Normal at 5% Significance Level	
Theta Star	0.0249		ntroverse e emigro e
· nu star	174.3		HUITE MARKET PROPERTY OF THE PERSON
Approximate Chi Square Value (.05)	144.7	Nonparametric Statistics	M
Adjusted Level of Significance	0.0231	95% CLT UCL	0.27
Adjusted Chi Square Value	139	95% Jackknife UCL	0.28
		95% Standard Bootstrap UCL	0.27
Anderson-Darling Test Statistic	0.283	95% Bootstrap-t UCL	0.29
Anderson-Darling 5% Critical Value	0.721	95% Hall's Bootstrap UCL	0.27
Kolmogorov-Smirnov Test Statistic	0.167	95% Percentile Bootstrap UCL	0.27
Kolmogorov-Smirnov 5% Critical Value	0.279	95% BCA Bootstrap UCL	0.27
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.33
		97.5% Chebyshev(Mean, Sd) UCL	0.38
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.46
95% Approximate Gamma UCL	0.29		
95% Adjusted Gamma UCL	0.302		
and the manufactor of the first of the manufactor of the manufacto			

Potential UCL to Use		Use 95% Student's-t UCL	0.28
			Laterate is to be accorded to a
sult or 1/2 SDL (nickel)	tu Vidi		
	General Stat	istics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics		Log-transformed Statistics	distablicancy (strain) (strain
Minimum	6.31	Minimum of Log Data	1.8
Maximum	27.3	Maximum of Log Data	3.3
Mean	14.91	Mean of log Data	2.5
Median	13	SD of log Data	0.5
SD	8.111		A-100-\$111111111111111111111111111111111
Coefficient of Variation	0.544		************
Skewness	0.452		***************************************
F	Relevant UCL S	Statistics	-
Normal Distribution Test		Lognormal Distribution Test	fer i a order de ré-modrane
Shapiro Wilk Test Statistic	0.892	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.8
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	#*************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	19.94	95% H-UCL	24.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	27.5
95% Adjusted-CLT UCL	19.79	97.5% Chebyshev (MVUE) UCL	33.0
95% Modified-t UCL	20.01	99% Chebyshev (MVUE) UCL	43.7
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.55	Data appear Normal at 5% Significance Level	
Theta Star	5.847	Data appear Hornia at 0% digitime and Ector	***************************************
nu star	45.91		
Approximate Chi Square Value (.05)	31.36	Nonparametric Statistics	Principal and State or service.
Adjusted Level of Significance	0.0231	95% CLT UCL	19.3
Adjusted Chi Square Value	28.85	95% Jackknife UCL	19.9
		95% Standard Bootstrap UCL	19.0
Anderson-Darling Test Statistic	0.395	95% Bootstrap-t UCL	20.3
Anderson-Darling 5% Critical Value	0.725	95% Hall's Bootstrap UCL	19.0
Kolmogorov-Smirnov Test Statistic	0.172	95% Percentile Bootstrap UCL	19.1
Kolmogorov-Smirnov 5% Critical Value	0.281	95% BCA Bootstrap UCL	19.2
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	26.7
		97.5% Chebyshev(Mean, Sd) UCL	31.8
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	41.8
95% Approximate Gamma UCL	21.83	. , ,	
95% Adjusted Gamma UCL	23.73		
Potential UCL to Use		Use 95% Student's-t UCL	19.94

ber of Unique Samples  med Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  stribution Test  apiro Wilk Test Statistic  piro Wilk Critical Value  at 5% Significance Leve  rmal Distribution  95% H-UCL  nebyshev (MVUE) UCL  nebyshev (MVUE) UCL	80.08
med Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Stribution Test  apiro Wilk Test Statistic  piro Wilk Critical Value  at 5% Significance Leve  at 5% Significance Leve  at 5% H-UCL  nebyshev (MVUE) UCL	3.55 4.47 4.01 0.38 0.84 0.82
Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Stribution Test  apiro Wilk Test Statistic  piro Wilk Critical Value  at 5% Significance Leve  at 5% H-UCL  nebyshev (MVUE) UCL	0.38- 0.84- 0.82- 1
Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Stribution Test  apiro Wilk Test Statistic  piro Wilk Critical Value  at 5% Significance Leve  at 5% H-UCL  nebyshev (MVUE) UCL	0.38- 0.84- 0.82- 1
Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  stribution Test apiro Wilk Test Statistic piro Wilk Critical Value at 5% Significance Leve  rmal Distribution  95% H-UCL nebyshev (MVUE) UCL	0.38- 0.84- 0.82- 1
Mean of log Data SD of log Data SD of log Data stribution Test apiro Wilk Test Statistic piro Wilk Critical Value at 5% Significance Leve at 5% Significance Leve at 5% H-UCL nebyshev (MVUE) UCL	0.384 0.829
SD of log Data  stribution Test apiro Wilk Test Statistic piro Wilk Critical Value at 5% Significance Leve rmal Distribution 95% H-UCL nebyshev (MVUE) UCL	0.38 0.84 0.82 1
stribution Test apiro Wilk Test Statistic piro Wilk Critical Value at 5% Significance Leve rmal Distribution 95% H-UCL nebyshev (MVUE) UCL	0.84 0.82 1
apiro Wilk Test Statistic piro Wilk Critical Value at 5% Significance Leve rmal Distribution 95% H-UCL nebyshev (MVUE) UCL	0.82
apiro Wilk Test Statistic piro Wilk Critical Value at 5% Significance Leve rmal Distribution 95% H-UCL nebyshev (MVUE) UCL	0.82
apiro Wilk Test Statistic piro Wilk Critical Value at 5% Significance Leve rmal Distribution 95% H-UCL nebyshev (MVUE) UCL	0.82
apiro Wilk Test Statistic piro Wilk Critical Value at 5% Significance Leve rmal Distribution 95% H-UCL nebyshev (MVUE) UCL	0.82
apiro Wilk Test Statistic piro Wilk Critical Value at 5% Significance Leve rmal Distribution 95% H-UCL nebyshev (MVUE) UCL	0.82
piro Wilk Critical Value at 5% Significance Leve	0.82
rmal Distribution 95% H-UCL nebyshev (MVUE) UCL	80.08
mal Distribution 95% H-UCL nebyshev (MVUE) UCL nebyshev (MVUE) UCL	80.08
95% H-UCL nebyshev (MVUE) UCL nebyshev (MVUE) UCL	
95% H-UCL nebyshev (MVUE) UCL nebyshev (MVUE) UCL	
nebyshev (MVUE) UCL nebyshev (MVUE) UCL	
nebyshev (MVUE) UCL	92.89
	107.5
	136.1
tribution	d.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
5% Significance Level	
ric Statistics	V 1000 11 11 11 11 11 11 11 11 11 11 11 1
95% CLT UCL	71.26
95% Jackknife UCL	72.84
andard Bootstrap UCL	70.57
95% Bootstrap-t UCL	73.19
% Hall's Bootstrap UCL	68.52
rcentile Bootstrap UCL	70.6
% BCA Bootstrap UCL	71.02
· · · · · · · · · · · · · · · · · · ·	91.22
	105.1
yshev(Mean, Sd) UCL	132.3
•	······································
	95% Jackknife UCL

c 0.93 e 0.83  L 39.38 L 45.43 L 63.08
c 0.93 e 0.82 vel  L 39.38 L 45.43
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Skewness	2.966		* [/:
	Relevant UC	CL Statistics	
Normal Distribution Test	Y	Lognormal Distribution Test	
Shapiro Wilk Test Statistic		Shapiro Wilk Test Statistic	0.8
Shapiro Wilk Critical Value	0.829	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level	***************************************	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution	<u>, , , , , , , , , , , , , , , , , , , </u>	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0053	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0068	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0056	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.378	Data appear Lognormal at 5% Significance Level	
K star (blas corrected) Theta Star	0.378	Data appear Logitoffila at 3 % Significance Level	
nu star	6.802		······································
Approximate Chi Square Value (.05)	2.063		
Adjusted Level of Significance		Nonparametric Statistics 95% CLT UCL	0.0
-	0.0231	95% CET OCL 95% Jackknife UCL	0.0
Adjusted Chi Square Value	1.558		0.0
	4.040	95% Standard Bootstrap UCL	
Anderson-Darling Test Statistic	1.313	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.779	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.319	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.296	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0072		
95% Adjusted Gamma UCL	0.0095		
Potential UCL to Use		Use 95% Chebyshev (MVUE) UCL	0.0
sult or 1/2 SDL (vanadium)			
	General S	Statistics	
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics	aa ( mar - 44,5	Log-transformed Statistics	
Minimum	10.2	Minimum of Log Data	2.3
. Maximum	34.2	Maximum of Log Data	3.5
Mean	20.21	Mean of log Data	2.9
Median	19.1	SD of log Data	0.4
SD	9.135		
Coefficient of Variation	0.452		
Skewness	0.468		
	Relevant UC	CL Statistics	~
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.9	Shapiro Wilk Test Statistic	0.9

	1	Data appear Lognormal at 5% Significance Leve	
Data appear Normal at 5% Significance Level		Data appear Logitoma at 0.6 Significance Leve	·
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	25.87	95% H-UCL	29.5
95% UCLs (Adjusted for Skewness)	L	95% Chebyshev (MVUE) UCL	33.92
95% Adjusted-CLT UCL	25.73	97.5% Chebyshev (MVUE) UCL	39.86
95% Modified-t UCL	25.95	99% Chebyshev (MVUE) UCL	51.5
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.758	Data appear Normal at 5% Significance Level	······································
Theta Star	5.378		
nu star	67.64		
Approximate Chi Square Value (.05)	49.71	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	25.22
Adjusted Chi Square Value	46.49	95% Jackknife UCL	25.87
		95% Standard Bootstrap UCL	25
Anderson-Darling Test Statistic	0.366	95% Bootstrap-t UCL	26.93
Anderson-Darling 5% Critical Value	0.723	95% Hall's Bootstrap UCL	25.0
Kolmogorov-Smirnov Test Statistic	0.183	95% Percentile Bootstrap UCL	25.0
Kolmogorov-Smirnov 5% Critical Value	0.28	95% BCA Bootstrap UCL	25.46
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	33.48
		97.5% Chebyshev(Mean, Sd) UCL	39.23
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	50.5
95% Approximate Gamma UCL	27.5		
95% Adjusted Gamma UCL	29.41		
Potential UCL to Use		Use 95% Student's-t UCL	25.87
It or 1/2 SDL (xylene (total))			
	General S	Statistics	APITETTI TI ZETEVETEN
Number of Valid Samples	9	Number of Unique Samples	9
Raw Statistics	***************************************	Log-transformed Statistics	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
LIGA SIGNATICS	4.6250E-4	Minimum of Log Data	-7.679
	0.0044	Maximum of Log Data	-5.414
	0.0017	Mean of log Data	-6.668
Minimum		SD of log Data	0.86
Minimum Maximum	0.0010	<b>_1</b>	
Minimum Maximum Mean	0.0010		
Minimum Maximum Mean Median			
Minimum Maximum Mean Median SD	0.0014		
Minimum Maximum Mean Mean Median SD Coefficient of Variation Skewness	0.0014 0.818	L Statistics	
Minimum Maximum Mean Mean Median SD Coefficient of Variation Skewness	0.0014 0.818 0.955	L Statistics  Lognormal Distribution Test	
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	0.0014 0.818 0.955		0.90
Minimum Maximum Mean Mean Median SD Coefficient of Variation Skewness	0.0014 0.818 0.955 Relevant UC	Lognormal Distribution Test	
Minimum Maximum Mean Mean Median SD Coefficient of Variation Skewness  F Normal Distribution Test Shapiro Wilk Test Statistic	0.0014 0.818 0.955 Relevant UC	Lognormal Distribution Test Shapiro Wilk Test Statistic	0.82
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.0014 0.818 0.955 Relevant UC	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.90

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95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.004
95% Adjusted-CLT UCL	0.0027	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0026	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.218	Data appear Normal at 5% Significance Level	
Theta Star	0.0014		-B101-100-100-100-100-100-100-100-100-10
nu star	21.93		
Approximate Chi Square Value (.05)	12.29	Nonparametric Statistics	
Adjusted Level of Significance	0.0231	95% CLT UCL	0.00
Adjusted Chi Square Value	10.79	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	0.43	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.732	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.194	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.283	95% BCA Bootstrap UCL	0.00
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
95% Approximate Gamma UCL	0.0031		,,
95% Adjusted Gamma UCL	0.0035		
Potential UCL to Use		Use 95% Student's-t UCL	0.00
ult or 1/2 SDL (zinc)			
	General S		9
ult or 1/2 SDL (zinc)  Number of Valid Samples		Number of Unique Samples	9
			9
Number of Valid Samples		Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	9
Number of Valid Samples Raw Statistics	9 19.3 54.1	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	2.96 3.99
Number of Valid Samples  Raw Statistics  Minimum	9	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	2.96
Number of Valid Samples  Raw Statistics  Minimum  Maximum	9 19.3 54.1 36.04 34.1	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	2.96 3.99 3.51
Raw Statistics  Minimum  Maximum  Mean  Median  SD	9 19.3 54.1 36.04 34.1 13.68	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	2.96 3.99 3.51
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation	9 19.3 54.1 36.04 34.1 13.68 0.379	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	2.96 3.99 3.51
Raw Statistics  Minimum  Maximum  Mean  Median  SD	9 19.3 54.1 36.04 34.1 13.68	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	2.96 3.99 3.51
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	9 19.3 54.1 36.04 34.1 13.68 0.379	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	2.96
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	2.96 3.99 3.51
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	2.96 3.99 3.51 0.40
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	2.96 3.99 3.51 0.40
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	2.96 3.99 3.51 0.40 0.89
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735 Relevant UC	Log-transformed Statistics  Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data SD of log Data	2.96 3.99 3.51 0.40 0.89
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level	9 19.3 54.1 36.04 34.1 13.68 0.379 0.0735 Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Data appear Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	2.96 3.99 3.51 0.40 0.89 0.82
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution	9  19.3 54.1 36.04 34.1 13.68 0.379 0.0735  Relevant UC 0.901 0.829	Log-transformed Statistics  Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.96 3.99 3.51 0.40 0.89 0.82
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	9  19.3 54.1 36.04 34.1 13.68 0.379 0.0735  Relevant UC 0.901 0.829	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	2.96 3.99 3.51 0.40 0.89
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  Finance  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	9  19.3 54.1 36.04 34.1 13.68 0.379 0.0735  Relevant UC  0.901 0.829	Log-transformed Statistics  Minimum of Log Data Maximum of Log Data Mean of log Data SD of log Data	2.96 3.99 3.51 0.40 0.89 0.82 49.64 57.54

k star (bias corrected) 4.975	Data appear Normal at 5% Significance Level	
Theta Star 7.246		
nu star 89.54		
Approximate Chi Square Value (.05) 68.73	Nonparametric Statistics	
Adjusted Level of Significance 0.0231	95% CLT UCL	43.5
Adjusted Chi Square Value 64.89	95% Jackknife UCL	44.5
	95% Standard Bootstrap UCL	42.9
Anderson-Darling Test Statistic 0.426	95% Bootstrap-t UCL	44.5
Anderson-Darling 5% Critical Value 0.722	95% Hall's Bootstrap UCL	42.2
Kolmogorov-Smirnov Test Statistic 0.197	95% Percentile Bootstrap UCL	42.9
Kolmogorov-Smirnov 5% Critical Value 0.28	95% BCA Bootstrap UCL	43.5
pear Gamma Distributed at 5% Significance Level	95% Chebyshev(Mean, Sd) UCL	55.9
	97.5% Chebyshev(Mean, Sd) UCL	64.5
Assuming Gamma Distribution	99% Chebyshev(Mean, Sd) UCL	81.4
95% Approximate Gamma UCL 46.96		
95% Adjusted Gamma UCL 49.74		
Potential UCL to Use	Use 95% Student's-t UCL	44.5

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## APPENDIX A-8

NORTH OF MARLIN SEDIMENT

		lubatai ac		
	General UCL Statistic	s for Full Da	ta Sets	
User Selected Options	)			
From File	J:\1352 - Gulfco RI\risk	(\data querie	es oct 07\EPC tables with onehalf DL\Copy of north wetland	detection
Full Precision	OFF	atteriote Warring verse to Welfale		<b></b>
Confidence Coefficient	95%			1-1-14 q-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Number of Bootstrap Operations	2000			··
Result or 1/2 SDL (1,2-dichloroet	hane)			
	and a second second second second second second second second second second second second second second second	General	Statistics	
N	umber of Valid Samples	48	Number of Unique Samples	40
Raw S	tatistics	<b>,</b>	Log-transformed Statistics	·
	Minimum	6.1500E-5	Minimum of Log Data	-9.696
code de cripe di della carga cripe e con constitución com en en esta del CECCA di Cella di Albanda con escribe	Maximum	0.0024	Maximum of Log Data	-6.032
	Mean	2.4915E-4	Mean of log Data	-9.1
Market varietist <del>- <u>au</u>tisis esisten is said peris -</del> <u>Autisististis beliefe et elektrone esisten autis autis said</u>	Median	7.6250E-5	SD of log Data	0.927
terber dat mest has nere en er en en en en en en en en en en en en en	SD	5.4106E-4		
esterneturus inchristrator etamienturus inchristraturus inchri	Coefficient of Variation	2.172		***************************************
	Skewness	3.34		
		Relevant U	CL Statistics	**************************************
Normal Dist	tribution Test		Lognormal Distribution Test	der von 1900-1904 (1904) (1904) (1904) (1904) (1904) (1904) (1904) (1904) (1904) (1904) (1904) (1904) (1904)
Sh	apiro Wilk Test Statistic	0.373	Shapiro Wilk Test Statistic	0.564
Sh	apiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data not Normal at 5	5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Nor	mal Distribution	10.111/11.111.011.011.011.01.011.01.01.01.01.01	Assuming Lognormal Distribution	
THE COURT OF THE COURT CARRY STATE OF THE COURT OF THE CO	95% Student's-t UCL	3.8018E-4	95% H-UCL	2.3239E-
95% UCLs (Adju	sted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	2.8326E-
	95% Adjusted-CLT UCL	4.1783E-4	97.5% Chebyshev (MVUE) UCL	3.3255E-4
	95% Modified-t UCL	3.8646E-4	99% Chebyshev (MVUE) UCL	4.2936E-4
Gamma Dis	tribution Test		Data Distribution	ar sprikter (kontroller server se
and the state of the second state of the secon	k star (bias corrected)	0.713	Data do not follow a Discernable Distribution (0.0	5)
Hannillan ila inggilipida ila ila da da alla aga da da anta anta aga da da da da anta anta anta anta anta a	Theta Star	3.4927E-4		***************************************
With the was a second to the second s	nu star	68.48		***************************************
Approximate	Chi Square Value (.05)	50.43	Nonparametric Statistics	
Adjust	ed Level of Significance	0.045	95% CLT UCL	
Adj	usted Chi Square Value	49.95	95% Jackknife UCL	
- Walden Bell in being			95% Standard Bootstrap UCL	
	on-Darling Test Statistic	11.29	95% Bootstrap-t UCL	
	arling 5% Critical Value	0.792	95% Hall's Bootstrap UCL	
	v-Smirnov Test Statistic	0.392	95% Percentile Bootstrap UCL	
_	nirnov 5% Critical Value	0.133	95% BCA Bootstrap UCL	
Data not Gamma Distribute	ed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	
			97.5% Chebyshev(Mean, Sd) UCL	
	ma Distribution		99% Chebyshev(Mean, Sd) UCL	0.001
	proximate Gamma UCL			
95%	Adjusted Gamma UCL	3.4156E-4		
			1	

Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	.8956E
sult or 1/2 SDL (2-methylnaphthalene)			
suit of 172 oot (2-nietrymaphilialene)	are the library factor and the second second second second second second second second second second second se		
	General Stat	stics	·
Number of Valid Samples	48	Number of Unique Samples	33
Raw Statistics		Log-transformed Statistics	
Minimum	0.0042	Minimum of Log Data	-5.46
Maximum	0.43	Maximum of Log Data	-0.84
Mean	0.0246	Mean of log Data	-4.63
Median	0.006	SD of log Data	1.06
SD	0.0639	CD Of log Police	. 1.00
Coefficient of Variation	2.595		
Skewness	5.712		H-1
			**************************************
Normal Distribution Test	Relevant UCL S	Lognormal Distribution Test	******************************
Shapiro Wilk Test Statistic	0.343	Shapiro Wilk Test Statistic	0.69
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0401	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.03
95% Adjusted-CLT UCL	0.0479	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.0414	99% Chebyshev (MVUE) UCL	0.04
Gamma Distribution Test		Data Distribution	r esteritorità y en abanca h
k star (bias corrected)	0.627	Data do not follow a Discernable Distribution (0.05	3)
Theta Star	0.0392		,
nu star	60.23		
Approximate Chi Square Value (.05)	43.38	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.03
Adjusted Chi Square Value	42.94	95% Jackknife UCL	0.04
		95% Standard Bootstrap UCL	0.03
Anderson-Darling Test Statistic	8.232	95% Bootstrap-t UCL	0.06
Anderson-Darling 5% Critical Value	0.8	95% Hall's Bootstrap UCL	0.09
Kolmogorov-Smirnov Test Statistic	0.358	95% Percentile Bootstrap UCL	0.04
Kolmogorov-Smirnov 5% Critical Value	0.134	95% BCA Bootstrap UCL	0.05
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.06
		97.5% Chebyshev(Mean, Sd) UCL	0.08
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.11
95% Approximate Gamma UCL	0.0342		
95% Adjusted Gamma UCL	0.0345		Part 17-11-100 100 100 100 100 100 100 100 100
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.11

	General	Statistics	
Number of Valid Samples		Number of Unique Samples	52
Raw Statistics		Log-transformed Statistics	
Minimum	7.7000E-5	Minimum of Log Data	-9.472
Maximum	0.0092	Maximum of Log Data	-4.686
Mean	9.5155E-4	Mean of log Data	-7.784
Median	3.5500E-4	SD of log Data	1.284
SD	0.0015		
Coefficient of Variation	1.597		
Skewness	3.563		······································
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic		Lilliefors Test Statistic	0.142
Lilliefors Critical Value	0.118	Lilliefors Critical Value	0.118
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	-	Assuming Lognormal Distribution	~~~
95% Student's-t UCL	0.0012		0.001
95% UCLs (Adjusted for Skewness)	0.0010	95% Chebyshev (MVUE) UCL	0.001
95% Adjusted-CLT UCL			0.002
95% Modified-t UCL	0.0013	99% Chebyshev (MVUE) UCL	0.002
Gamma Distribution Test		Data Distribution	nagletytelesses to tampe and made p
k star (bias corrected)	0.7	Data do not follow a Discernable Distribution (0.05	<del></del>
Theta Star	]		// 
nu star	78.45		
Approximate Chi Square Value (.05)	59.05	Nonparametric Statistics	***************************************
Adjusted Level of Significance	1	1	0.001
Adjusted Chi Square Value	1	95% Jackknife UCL	0.001
Adjaced on Oqual value	00.0	95% Standard Bootstrap UCL	0.001
Anderson-Darling Test Statistic	2.244	95% Bootstrap-t UCL	0.001
Anderson-Darling 5% Critical Value	0.795	95% Hall's Bootstrap UCL	0.001
Kolmogorov-Smirnov Test Statistic	1	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.124	95% BCA Bootstrap UCL	0.001
Data not Gamma Distributed at 5% Significance L	1	95% Chebyshev(Mean, Sd) UCL	0.001
		97.5% Chebyshev(Mean, Sd) UCL	0.002
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.002
95% Approximate Gamma UCL	0.0012		nancentraneae aparaceae
95% Adjusted Gamma UCL			
	,		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.002
		L	
esult or 1/2 SDL (acenaphthene)			
	General S		
Number of Valid Samples	48	Number of Unique Samples	34
Raw Statistics		Log-transformed Statistics	
Minimum	0.0042	Minimum of Log Data	-5.46

· 第485年(1882章起秦中海成立帝)(1894年)(1886年) 1894年			ya c <b>ana</b> x
Maximum	0.133	Maximum of Log Data	-2.017
Mean	0.0195	Mean of log Data	-4.671
Median	0.0055	SD of log Data	1.03
SD	0.031		MINERLY 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P. 11 P.
Coefficient of Variation	1.59		
Skewness	2.314		
Normal Distribution Test	Relevant UC	Lognormal Distribution Test	nda taka kasal kasa da Afrika Salaya da sa
Shapiro Wilk Test Statistic	0.546	Shapiro Wilk Test Statistic	0.66
Shapiro Wilk Critical Value	1 1	Shapiro Wilk Critical Value	0.94
	0.947		0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	O THE PERSONNEL THE PROPERTY OF
95% Student's-t UCL	0.027	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)	1 0.027	95% Chebyshev (MVUE) UCL	0.02
95% Adjusted-CLT UCL	0.0285	97.5% Chebyshev (MVUE) UCL	0.02
95% Modified-t UCL	.[	99% Chebyshev (MVUE) UCL	0.03
33 / Middlied-LOCL	0.02/3	33/3 Chebyshev (WVCE) OCC	0.04
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.771	Data do not follow a Discernable Distribution (0.0)	5)
Theta Star			
nu star	74.06		
Approximate Chi Square Value (.05)	55.24	Nonparametric Statistics	
Adjusted Level of Significance	1	95% CLT UCL	0.02
Adjusted Chi Square Value	<u> </u>	95% Jackknife UCL	0.02
Adjusted of a oquato value	04.74	95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	8.594	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	1	95% Hall's Bootstrap UCL	0.02
Kolmogorov-Smirnov Test Statistic	11	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	0.02
_	1	,	
Data not Gamma Distributed at 5% Significance L	evei	95% Chebyshev(Mean, Sd) UCL	0.03
III. III. III. III. III. III. III. III		97.5% Chebyshev(Mean, Sd) UCL	0.04
Assuming Gamma Distribution	0.0004	99% Chebyshev(Mean, Sd) UCL	0.06
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	<u> </u>		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.06
out of 10 CDL (composite law)			
sult or 1/2 SDL (acenaphthylene)	The state of the s		
Number of Valid Samples	General S 48	Statistics  Number of Unique Samples	36
Raw Statistics		Log-transformed Statistics	
Minimum		Minimum of Log Data	-5.591
Maximum		Maximum of Log Data	-0.607
Mean		Mean of log Data	-4.703
Median	1	SD of log Data	1.13
SD	0.0928		
Coefficient of Variation	2.957		

	- 7 - 15 - 7 - 1 - 15 - 15 - 15 - 15 - 1		
Skewness	4.65	A more replacement to Extra section to the Conference of the Confe	
	Relevant U	CL Statistics	
Normal Distribution Test	garantenario meneralizado de la constitución de la constitución de la constitución de la constitución de la co	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.333	Shapiro Wilk Test Statistic	0.64
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level	·	Data not Lognormal at 5% Significance Level	nammanamuni
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0539	95% H-UCL	0.02
95% UCLs (Adjusted for Skewness)	i	95% Chebyshev (MVUE) UCL	0.03
95% Adjusted-CLT UCL	0.063	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.0554	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test	o (1,000, 1,000 /1,000 mm mo prima species	Data Distribution	***************************************
k star (bias corrected)	0.492	Data do not follow a Discernable Distribution (0.05	``
Theta Star	0.492		
nu star	47.23		
		N	
Approximate Chi Square Value (.05)	32.46	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.0
Adjusted Chi Square Value	32.08	95% Jackknife UCL	0.0
		95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	10.36	95% Bootstrap-t UCL	0.1
Anderson-Darling 5% Critical Value	0.813	95% Hall's Bootstrap UCL	0.1
Kolmogorov-Smirnov Test Statistic	0.408	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.135	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	0.08
		97.5% Chebyshev(Mean, Sd) UCL	0.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.16
95% Approximate Gamma UCL	0.0457		J. L.
95% Adjusted Gamma UCL	0.0462		y-1
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.1
sult or 1/2 SDL (aluminum)			
	General	Statistics	
Number of Valid Samples	48	Number of Unique Samples	38
Raw Statistics		Log-transformed Statistics	
Minimum	3400	Minimum of Log Data	8.1
Maximum	19200	Maximum of Log Data	9.80
Mean	13229	Mean of log Data	9.4
Median	13650	SD of log Data	0.29
SD	3162		
Coefficient of Variation	0.239		
Skewness	-0.611		
	Relevant U	CL Statistics	
	Relevant U(	CL Statistics  Lognormal Distribution Test	

LISTS SERVICE STREET OF AN AMERICAN AND AND AND AND AND AND AND AND AND A	0.947	Shapiro Wilk Critical Value	0.94
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	mana amana amana
. 95% Student's-t UCL	13995	95% H-UCL	14384
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	15840
95% Adjusted-CLT UCL	13936	97.5% Chebyshev (MVUE) UCL	16931
95% Modified-t UCL	13988	99% Chebyshev (MVUE) UCL	19075
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	13.16	Data appear Normal at 5% Significance Level	erren-wo-withtwevenung
Theta Star	1005		Al (M. 144 (144 (144 (144 (144 (144 (144 (144
nu star	1264		les ter ma urmit Martin Hills
Approximate Chi Square Value (.05)	1182	Nonparametric Statistics	and the same VIII to be to be
Adjusted Level of Significance	0.045	95% CLT UCL	13980
	1180	95% Jackknife UCL	
Adjusted Chi Square Value	1100	95% Standard Bootstrap UCL	13978
And I was Davidson Translation	0.922	· 1	
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	13984
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL	13975
Kolmogorov-Smirnov Test Statistic	0.139	95% Percentile Bootstrap UCL	13979
Kolmogorov-Smirnov 5% Critical Value	0.128	95% BCA Bootstrap UCL	13943
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	15218
		97.5% Chebyshev(Mean, Sd) UCL	16079
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	17770
95% Approximate Gamma UCL	14141		
95% Adjusted Gamma UCL	14170		
Potential UCL to Use		Use 95% Student's-t UCL	13995
sult or 1/2 SDL (anthracene)			
- Annual problems - the second control of the second secon	General St	tatistics	
	40	N I	
Number of Valid Samples	48	Number of Unique Samples	39
Number of Valid Samples Raw Statistics		Log-transformed Statistics	
<u> </u>	0.0029	Log-transformed Statistics  Minimum of Log Data	-5.82
Raw Statistics		Log-transformed Statistics	
Raw Statistics Minimum	0.0029	Log-transformed Statistics  Minimum of Log Data	-5.82
Raw Statistics  Minimum  Maximum	0.0029 0.334	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.82 -1.09
Raw Statistics Minimum Maximum Mean	0.0029 0.334 0.0288	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.82 -1.09 -4.66
Raw Statistics  Minimum  Maximum  Mean  Median	0.0029 0.334 0.0288 0.0060	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.82 -1.09 -4.66
Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0029 0.334 0.0288 0.0060 0.0678	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.82 -1.09 -4.66
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0029 0.334 0.0288 0.0060 0.0678 2.358	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.82 -1.09 -4.66
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0029 0.334 0.0288 0.0060 0.0678 2.358 3.546	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.82 -1.09 -4.66
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0029 0.334 0.0288 0.0060 0.0678 2.358 3.546	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.82 -1.09 -4.66 1.19
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test	0.0029 0.334 0.0288 0.0060 0.0678 2.358 3.546	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-5.82 -1.09 -4.66 1.1:
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0029 0.334 0.0288 0.0060 0.0678 2.358 3.546	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.82 -1.09 -4.66
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.0029 0.334 0.0288 0.0060 0.0678 2.358 3.546	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-5.82 -1.09 -4.66 1.19

			All the Co., Application of the
95% UCLs (Adjusted for Skewness)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	95% Chebyshev (MVUE) UCL	0.036
95% Adjusted-CLT UCL	0.0502	97.5% Chebyshev (MVUE) UCL	0.04
95% Modified-t UCL	0.046	99% Chebyshev (MVUE) UCL	0.05
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.54	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.0533		
nu star	51.83		
Approximate Chi Square Value (.05)	36.3	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.04
Adjusted Chi Square Value	35.89	95% Jackknife UCL	0.04
		95% Standard Bootstrap UCL	0.04
Anderson-Darling Test Statistic	7.224	95% Bootstrap-t UCL	0.05
Anderson-Darling 5% Critical Value	0.809	95% Hall's Bootstrap UCL	0.04
Kolmogorov-Smirnov Test Statistic	0.332	95% Percentile Bootstrap UCL	0.04
Kolmogorov-Smirnov 5% Critical Value	0.135	95% BCA Bootstrap UCL	0.05
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.08
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.12
95% Approximate Gamma UCL	0.0411	3370 Onesystev (Mean, Od) OOL	U. 12
95% Adjusted Gamma UCL	0.0411		
95% Adjusted Gamma OCL	0.0415		and the first community of position from
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.12
ult or 1/2 SDL (antimony)	Gonoral Stati		
ult or 1/2 SDL (antimony)	General Stati	istics  Number of Unique Samples	35
Number of Valid Samples		Number of Unique Samples	35
Number of Valid Samples Raw Statistics	47	Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples	0.12	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-2.12
Number of Valid Samples Raw Statistics	47	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-2.12 1.44
Number of Valid Samples  Raw Statistics  Minimum	0.12	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-2.12 1.44 -0.15
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.12	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-2.12 1.44 -0.15
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.12 4.24 1.154	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-2.12 1.44 -0.15
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.12 4.24 1.154 1.14 0.724 0.627	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-2.12 1.44 -0.15
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.12 4.24 1.154 1.14 0.724	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-2.12 1.44 -0.15
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.12 4.24 1.154 1.14 0.724 0.627	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.12 4.24 1.154 1.14 0.724 0.627 1.485	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-2.12 1.44 -0.15
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.12 4.24 1.154 1.14 0.724 0.627 1.485	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  statistics	-2.12 1.44 -0.15 <sup>-1</sup> 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Final Normal Distribution Test  Shapiro Wilk Test Statistic	0.12 4.24 1.154 1.14 0.724 0.627 1.485	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  tatistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-2.12 1.44 -0.15 0.93
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.12 4.24 1.154 1.14 0.724 0.627 1.485	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  tatistics  Lognormal Distribution Test	-2.12 1.44 -0.15
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.12 4.24 1.154 1.14 0.724 0.627 1.485	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-2.12 1.42 -0.15 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.12 4.24 1.154 1.14 0.724 0.627 1.485 Relevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  tatistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-2.12 1.44 -0.15 0.93 0.75 0.94
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Final Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.12 4.24 1.154 1.14 0.724 0.627 1.485	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-2.12 1.44 -0.15 0.93 0.75 0.94
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.12 4.24 1.154 1.14 0.724 0.627 1.485 Relevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Assuming Lognormal Distribution Test  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-2.12 1.44 -0.15 0.93 0.75 0.94
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	0.12 4.24 1.154 1.14 0.724 0.627 1.485 Relevant UCL S 0.863 0.946	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-2.12 1.44 -0.15 0.93 0.75 0.94
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.12 4.24 1.154 1.14 0.724 0.627 1.485 Relevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Assuming Lognormal Distribution Test  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-2.12 1.44 -0.15 0.93 0.75 0.94

k star (bias corrected)	1.745	Data do not follow a Discernable Distribution (0.0)	
Theta Star	1		-,
nu star	-		
Approximate Chi Square Value (.05)	ł	Nonparametric Statistics	
Adjusted Level of Significance	1		1.328
Adjusted Chi Square Value	Į., i	95% Jackknife UCL	1.33
		95% Standard Bootstrap UCL	1.329
Anderson-Darling Test Statistic	3.362	95% Bootstrap-t UCL	1.348
Anderson-Darling 5% Critical Value	1	95% Hall's Bootstrap UCL	1.38
Kolmogorov-Smirnov Test Statistic	į.	95% Percentile Bootstrap UCL	1.33
Kolmogorov-Smirnov 5% Critical Value		95% BCA Bootstrap UCL	1.35
Data not Gamma Distributed at 5% Significance L	1	95% Chebyshev(Mean, Sd) UCL	1.61
		97.5% Chebyshev(Mean, Sd) UCL	1.814
Assuming Gamma Distribution	1	99% Chebyshev(Mean, Sd) UCL	2.20
95% Approximate Gamma UCL	1.398	,	
95% Adjusted Gamma UCL	1.406		
Potential UCL to Use	1	Use 95% Chebyshev (Mean, Sd) UCL	1.614
Result or 1/2 SDL (arsenic)			
	General		***************************************
Number of Valid Samples	48	Number of Unique Samples	47
Raw Statistics	***************************************	Log-transformed Statistics	***************************************
Minimum	0.06	Minimum of Log Data	-2.813
Maximum	12.8	Maximum of Log Data	2.549
Mean		Mean of log Data	0.199
Median	2.19	SD of log Data	1.52
SD	2.465		V
Coefficient of Variation	0.973		
Skewness			
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	ayeretter mentedya (enter tree
Shapiro Wilk Test Statistic	0.851	Shapiro Wilk Test Statistic	0.871
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	v
Assuming Normal Distribution	100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg 100 mg	Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	3.131	95% H-UCL	7.442
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	8.391
95% Adjusted-CLT UCL	3.215	97.5% Chebyshev (MVUE) UCL	10.42
95% Modified-t UCL	3.146	99% Chebyshev (MVUE) UCL	14.42
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.774	Data Follow Appr. Gamma Distribution at 5% Significance	e l evel
Theta Star	3.273		
nu star	74.32		*****************************
Approximate Chi Square Value (.05)	55.47	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	3.119
Adjusted Level of Olymillance	0.040	93 /6 OL 1 OOL	J. 118

Adjusted Chi Square Value	54.96	95% Jackknife UCL	3.131
		95% Standard Bootstrap UCL	3.105
Anderson-Darling Test Statistic	1.067	95% Bootstrap-t UCL	3.239
Anderson-Darling 5% Critical Value	0.789	95% Hall's Bootstrap UCL	3.333
Kolmogorov-Smirnov Test Statistic	0.13	95% Percentile Bootstrap UCL	3.167
Kolmogorov-Smirnov 5% Critical Value	0.133	95% BCA Bootstrap UCL	3.266
Data follow Appr. Gamma Distribution at 5% Significar	ice Level	95% Chebyshev(Mean, Sd) UCL	4.085
		97.5% Chebyshev(Mean, Sd) UCL	4.756
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	6.074
95% Approximate Gamma UCL	3.395		
95% Adjusted Gamma UCL	3.427		
Potential UCL to Use		Use 95% Approximate Gamma UCL	3.395
Result or 1/2 SDL (barium)		Statistics  Number of University Complete	AG
Number of Valid Samples	48	Number of Unique Samples	46
Raw Statistics	····	Log-transformed Statistics	
Minimum	36	Minimum of Log Data	3.584
Maximum	820	Maximum of Log Data	6.709
Mean	151.7	Mean of log Data	4.792
Median	102.5	SD of log Data	0.623
SD	136.5		hangarlanga albandin 1934 bankungka 1861 inser
Coefficient of Variation	0.899		
Skewness	3.09	TO THE COLUMN TEACHER	
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.653	Shapiro Wilk Test Statistic	0.929
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level	a harihan ina balankan garakan ina barah barah barah	Data not Lognormal at 5% Significance Level	***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	184.8	95% H-UCL	175.1
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	207
95% Adjusted-CLT UCL	193.5	97.5% Chebyshev (MVUE) UCL	233.6
95% Modified-t UCL	186.2	99% Chebyshev (MVUE) UCL	285.8
			***************************************
Gamma Distribution Test	9-47-1224-4-44-4-4-19-4-19-4-19-19-4-19-4-19	Data Distribution	
k star (bias corrected)	2.194	Data do not follow a Discernable Distribution (0.0	15)
Theta Star	69.14		
nu star	210.7		
Approximate Chi Square Value (.05)	178.1	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	184.1
Adjusted Chi Square Value	177.1	95% Jackknife UCL	184.8
		95% Standard Bootstrap UCL	184
Anderson-Darling Test Statistic	2.597	95% Bootstrap-t UCL	203.2
Anderson-Darling 5% Critical Value	0.76	95% Hall's Bootstrap UCL	214
Kolmogorov-Smirnov Test Statistic	0.219	95% Percentile Bootstrap UCL	186.1

Kolmogorov-Smirnov 5% Critical Value	0.129	95% BCA Bootstrap UCL	192.9
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	237.6
		97.5% Chebyshev(Mean, Sd) UCL	274.7
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	347.7
95% Approximate Gamma UCL	179.5		
95% Adjusted Gamma UCL	180.4		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	237.6
			Profession of Assessment
ult or 1/2 SDL (benzo(a)anthracene)			
	General Sta	tistics	
Number of Valid Samples	48	Number of Unique Samples	36
Raw Statistics		Log-transformed Statistics	······
Minimum	0.0025	Minimum of Log Data	-5.98
Maximum	0.993	Maximum of Log Data	-0.007
· Mean	0.0543	Mean of log Data	-4.58
Median	0.0056	SD of log Data	1.4
SD	0.175		
Coefficient of Variation	3.226		
Skewness	4.654		
F	Relevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.325	Shapiro Wilk Test Statistic	0.7
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.9
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
an mentantantantantantan dari perangan mentantan antan antan dari perangan pendantan mentantan dari pendan dar			
Assuming Normal Distribution		Assuming Lognormal Distribution	
Assuming Normal Distribution  95% Student's-t UCL	0.0967	Assuming Lognormal Distribution 95% H-UCL	0.0
	0.0967		
95% Student's-t UCL	0.0967	95% H-UCL	0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness)		95% H-UCL 95% Chebyshev (MVUE) UCL	0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	0.114	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	0.114	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test	0.114	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected)	0.114 0.0995 0.384	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star	0.114 0.0995 0.384 0.141	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution	0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star	0.114 0.0995 0.384 0.141 36.84	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)	0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	0.114 0.0995 0.384 0.141 36.84 23.95	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.08)	0.0 0.0 0.0 5)
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.114 0.0995 0.384 0.141 36.84 23.95 0.045	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL	0.0 0.0 0.0 5)
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.114 0.0995 0.384 0.141 36.84 23.95 0.045	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.08)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	0.0 0.0 0.0 5)
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	0.114 0.0995 0.384 0.141 36.84 23.95 0.045 23.62	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.08)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	0.0 0.0 0.0 0.0 0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.114 0.0995 0.384 0.141 36.84 23.95 0.045 23.62	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.08  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL	0.0 0.0 0.0 0.0 0.0 0.0 0.0
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	0.114 0.0995 0.384 0.141 36.84 23.95 0.045 23.62 8.124 0.839	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.114 0.0995 0.384 0.141 36.84 23.95 0.045 23.62 8.124 0.839 0.375 0.137	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.1 0.1
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.114 0.0995 0.384 0.141 36.84 23.95 0.045 23.62 8.124 0.839 0.375 0.137	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution  Data do not follow a Discernable Distribution (0.08  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL	0.0 0.0 0.0 0.2
95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.114 0.0995 0.384 0.141 36.84 23.95 0.045 23.62 8.124 0.839 0.375 0.137	95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap UCL 95% Hall's Bootstrap UCL 95% Percentile Bootstrap UCL 95% BCA Bootstrap UCL 95% BCA Bootstrap UCL	0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.1 0.1

95% Adjusted Gamma UCL	0.0847		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.30
sult or 1/2 SDL (benzo(a)pyrene)			
suit of 172 SDL (berizo(a)pyrene)			agathatanananytin
	General	Statistics	
Number of Valid Samples	48	Number of Unique Samples	32
Raw Statistics	d-harresta arrasa (harresta arrasa (harresta arrasa (harresta arrasa (harresta arrasa (harresta arrasa (harrest	Log-transformed Statistics	an an an an an an an an an an an an an a
Minimum	0.0043	Minimum of Log Data	-5.447
Maximum	1.3	Maximum of Log Data	0.26
Mean	0.104	Mean of log Data	-4.13
Median	0.0058	SD of log Data	1.69
SD	0.259		dan dan dan dan dan dan dan dan dan dan
Coefficient of Variation	2.493		and steep the federal despendent and
Skewness	3.36		
. L			
Normal Distribution Test	elevant UC	CL Statistics  Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.455	Shapiro Wilk Test Statistic	0.72
Shapiro Wilk Critical Value	0.433	Shapiro Wilk Test Statistic	0.72
Data not Normal at 5% Significance Level	0.547	Data not Lognormal at 5% Significance Level	0.07
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.167	95% H-UCL	0.14
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.15
95% Adjusted-CLT UCL	0.185	97.5% Chebyshev (MVUE) UCL	0.19
95% Modified-t UCL	0.17	99% Chebyshev (MVUE) UCL	0.27
Gamma Distribution Test		Data Distribution	and which the parties of the section
k star (bias corrected)	0.35	Data do not follow a Discernable Distribution (0.05	<u></u>
Theta Star	0.297		grande en en en en en en en en en en en en en
nu star	33.64		
Approximate Chi Square Value (.05)	21.37	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.045	95% CLT UCL	0.16
Adjusted Chi Square Value	21.07	95% Jackknife UCL	0.16
		95% Standard Bootstrap UCL	0.16
Anderson-Darling Test Statistic	7.481	95% Bootstrap-t UCL	0.22
Anderson-Darling 5% Critical Value	0.848	95% Hall's Bootstrap UCL	0.19
Kolmogorov-Smirnov Test Statistic	0.326	95% Percentile Bootstrap UCL	0.16
Kolmogorov-Smirnov 5% Critical Value	0.138	95% BCA Bootstrap UCL	0.19
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.26
		97.5% Chebyshev(Mean, Sd) UCL	0.338
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.476
95% Approximate Gamma UCL	0.164		
95% Adjusted Gamma UCL	0.166		***************************************

	Conorol	Statistics	
Number of Valid Samples	48	Number of Unique Samples	43
Raw Statistics		Log-transformed Statistics	.v. II. Waarde Heelst a Pre fell
Minimum	0.0037	Minimum of Log Data	-5.581
Maximum	1.36	Maximum of Log Data	0.30
Mean	0.0902	Mean of log Data	-4.019
Median	0.0119	SD of log Data	1.65
SD	0.237		
Coefficient of Variation	2.63		
Skewness	4.175		
F	Relevant U	CL Statistics	and the same only the same and the same of
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.413	Shapiro Wilk Test Statistic	0.84
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	*****************************
95% Student's-t UCL	0.148	95% H-UCL	0.14
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.15
95% Adjusted-CLT UCL	0.169	97.5% Chebyshev (MVUE) UCL	0.2
95% Modified-t UCL	0.151	99% Chebyshev (MVUE) UCL	0.27
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.395	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.228		***************************************
nu star	37.94		
Approximate Chi Square Value (.05)	24.84	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.14
Adjusted Chi Square Value	24.51	95% Jackknife UCL	0.14
111-111-111-111-111-111-111-111-111-11		95% Standard Bootstrap UCL	0.14
Anderson-Darling Test Statistic	4.515	95% Bootstrap-t UCL	0.26
Anderson-Darling 5% Critical Value	0.836	95% Hall's Bootstrap UCL	0.16
Kolmogorov-Smirnov Test Statistic	0.218	95% Percentile Bootstrap UCL	0.15
Kolmogorov-Smirnov 5% Critical Value	0.137	95% BCA Bootstrap UCL	0.17
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.23
		97.5% Chebyshev(Mean, Sd) UCL	0.30
Assuming Gamma Distribution	, )	99% Chebyshev(Mean, Sd) UCL	0.43
95% Approximate Gamma UCL	0.138		4
95% Adjusted Gamma UCL	0.14		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.43
sult or 1/2 SDL (benzo(g,h,i)perylene)			
	General	Statistics	**************************************

Raw Statistics
Maximum         1.94         Maximum of Log Data           Mean         0.198         Mean of log Data         -3           Median         0.0648         SD of log Data         -3           SD         0.388         SD of log Data         -3           Coefficient of Variation         1.959
Mean       0.198       Mean of log Data       -3         Median       0.0648       SD of log Data       -3         SD       0.388       SD of log Data       -3         Coefficient of Variation       1.959
Median 0.0648 SD of log Data SD 0.388 Coefficient of Variation 1.959 Skewness 3.146 Relevant UCL Statistics    Relevant UCL Statistics   Relevant UCL Statistics
SD 0.388  Coefficient of Variation 1.959 Skewness 3.146  Relevant UCL Statistics  Normal Distribution Test Lognormal Distribution Test Shapiro Wilk Test Statistic 0.548 Shapiro Wilk Test Statistic Shapiro Wilk Critical Value 0.947 Shapiro Wilk Critical Value Data not Normal at 5% Significance Level Data not Lognormal at 5% Significance Level  Assuming Normal Distribution Assuming Lognormal Distribution 95% Student's-t UCL 0.292 95% H-UCL 95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 95% Modified-t UCL 0.296 99% Chebyshev (MVUE) UCL Gamma Distribution Test Data Distribution
Coefficient of Variation   1.959
Relevant UCL Statistics  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL 95% Modified-t UCL Gamma Distribution  Relevant UCL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic O.548 Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Data not Lognormal Distribution  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 95% Chebyshev (MVUE) UCL 95% Modified-t UCL 95% Modified-t UCL Data Distribution
Normal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value O.947 Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 95% Modified-t UCL 95% Modified-t UCL 95% Modified-t UCL  Gamma Distribution Test  Lognormal Distribution Test  Shapiro Wilk Test Statistic O.548 Shapiro Wilk Test Statistic Data not Lognormal Distribution  Assuming Lognormal Distribution  95% H-UCL 95% H-UCL 95% Chebyshev (MVUE) UCL 95% Chebyshev (MVUE) UCL 95% Modified-t UCL 95% Modified-t UCL 95% Data Distribution
Normal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value O.947 Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 95% Modified-t UCL 95% Modified-t UCL 95% Modified-t UCL  Gamma Distribution Test  Lognormal Distribution Shapiro Wilk Test Statistic Shapiro Wilk Test Statistic O.548 Shapiro Wilk Test Statistic Data not Lognormal Distribution  Assuming Lognormal at 5% Significance Level  Data not Lognormal at 5% Significance Level  Data not Lognormal at 5% Significance Level  Data Distribution  Assuming Lognormal Distribution  95% H-UCL 95% H-UCL 95% Chebyshev (MVUE) UCL 95% Chebyshev (MVUE) UCL 95% Modified-t UCL 95% Modified-t UCL Data Distribution
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value 0.947 Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 95% Modified-t UCL 95% Modified-t UCL 95% Modified-t UCL  Gamma Distribution  Shapiro Wilk Test Statistic 0.548 Shapiro Wilk Test Statistic 0.947 Shapiro Wilk Test Statistic 1948 Shapiro Wilk Test
Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL  Gamma Distribution  O.947  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  95% Chebyshev (MVUE) UCL  95% Modified-t UCL  95% Modified-t UCL  Data Distribution
Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL   0.292   95% H-UCL   95% UCLs (Adjusted for Skewness)   95% Chebyshev (MVUE) UCL   95% Adjusted-CLT UCL   0.317   97.5% Chebyshev (MVUE) UCL   95% Modified-t UCL   0.296   99% Chebyshev (MVUE) UCL    Gamma Distribution Test   Data Distribution
95% Student's-t UCL         0.292         95% H-UCL           95% UCLs (Adjusted for Skewness)         95% Chebyshev (MVUE) UCL           95% Adjusted-CLT UCL         0.317         97.5% Chebyshev (MVUE) UCL           95% Modified-t UCL         0.296         99% Chebyshev (MVUE) UCL           Gamma Distribution Test         Data Distribution
95% Student's-t UCL         0.292         95% H-UCL           95% UCLs (Adjusted for Skewness)         95% Chebyshev (MVUE) UCL           95% Adjusted-CLT UCL         0.317         97.5% Chebyshev (MVUE) UCL           95% Modified-t UCL         0.296         99% Chebyshev (MVUE) UCL           Gamma Distribution Test         Data Distribution
95% UCLs (Adjusted for Skewness)         95% Chebyshev (MVUE) UCL           95% Adjusted-CLT UCL         0.317         97.5% Chebyshev (MVUE) UCL           95% Modified-t UCL         0.296         99% Chebyshev (MVUE) UCL           Gamma Distribution Test         Data Distribution
95% Adjusted-CLT UCL 0.317 97.5% Chebyshev (MVUE) UCL 95% Modified-t UCL 0.296 99% Chebyshev (MVUE) UCL Gamma Distribution Test Data Distribution
95% Modified-t UCL 0.296 99% Chebyshev (MVUE) UCL  Gamma Distribution Test Data Distribution
Gamma Distribution Test Data Distribution
k star (bias corrected) 0.438 Data do not follow a Discernable Distribution (0.05)
Theta Star 0.453
nu star 42.01
Approximate Chi Square Value (.05) 28.16 Nonparametric Statistics
Adjusted Level of Significance 0.045 95% CLT UCL
Adjusted Chi Square Value 27.8 95% Jackknife UCL
95% Standard Bootstrap UCL
Anderson-Darling Test Statistic 1.962 95% Bootstrap-t UCL
Anderson-Darling 5% Critical Value 0.826 95% Hall's Bootstrap UCL
Kolmogorov-Smirnov Test Statistic 0.159 95% Percentile Bootstrap UCL
Kolmogorov-Smirnov 5% Critical Value 0.136 95% BCA Bootstrap UCL
Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL
97.5% Chebyshev(Mean, Sd) UCL
Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL
OFIV Approximate Commo LIGI 0 200
95% Approximate Gamma UCL 0.296
95% Adjusted Gamma UCL 0.299
Stic   1.962   95% Standard Bootstrap UCL

SD Coefficient (Westerlands)	0.119		
Coefficient of Variation	1.813		
Skewness	4.12		
	Relevant UC	CL Statistics	MPRNA <b>MIN</b> IMAMINI
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.538	Shapiro Wilk Test Statistic	0.80
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0948	95% H-UCL	0.12
95% UCLs (Adjusted for Skewness)	0.0340	95% Chebyshev (MVUE) UCL	0.12
95% Adjusted OF Skewness) 95% Adjusted-CLT UCL	0.105	97.5% Chebyshev (MVUE) UCL	0.13
95% Adjusted-CLT UCL	0.105 0.0965	штория дополновать на применения в применения в применения в применения в применения в применения в применения В применения в приме	0.17
93% Modified-LOCE	0.0903	99% Chebyshev (MVDE) OCL	U.Z3
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.561	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.117		
nu star	53.85		
Approximate Chi Square Value (.05)	37.99	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.09
Adjusted Chi Square Value	37.57	95% Jackknife UCL	0.09
		95% Standard Bootstrap UCL	0.09
Anderson-Darling Test Statistic	4.058	95% Bootstrap-t UCL	0.12
Anderson-Darling 5% Critical Value	0.807	95% Hali's Bootstrap UCL	0.22
Kolmogorov-Smirnov Test Statistic	0.333	95% Percentile Bootstrap UCL	0.09
Kolmogorov-Smirnov 5% Critical Value	0.134	95% BCA Bootstrap UCL	0.11
Data not Gamma Distributed at 5% Significance Le	į	95% Chebyshev(Mean, Sd) UCL	0.14
		97.5% Chebyshev(Mean, Sd) UCL	0.17
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.23
95% Approximate Gamma UCL	0.0934		
95% Adjusted Gamma UCL	0.0944		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.23
esult or 1/2 SDL (beryllium)			
	General S	Protestics	
Number of Valid Samples	48	Number of Unique Samples	36
Raw Statistics		Log-transformed Statistics	4 070
Minimum	0.28	Minimum of Log Data	-1.273
Maximum	1.37	Maximum of Log Data	0.31
Mean	0.894	Mean of log Data	-0.144
Median	0.93	SD of log Data	0.26
SD	0.206		Pf + 1774 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Coefficient of Variation Skewness	0.23		

Relevant UCL Statistics

Normal Distribution Test	of the same and	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.983	Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data appear Normal at 5% Significance Level	,	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	we are a second where the w
95% Student's-t UCL	0.943	95% H-UCL	0.96
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.0
95% Adjusted-CLT UCL	0.941	97.5% Chebyshev (MVUE) UCL	1.1
95% Modified-t UCL	0.943	99% Chebyshev (MVUE) UCL	1.2
Gamma Distribution Test		Data Distribution	acerous policies de
k star (bias corrected)	15.18	Data appear Normal at 5% Significance Level	
Theta Star	0.0589		***************************************
nu star	1457		***************************************
Approximate Chi Square Value (.05)	1369	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.9
Adjusted Chi Square Value	1367	95% Jackknife UCL	0.9
Adjacod on oqual value	1007	95% Standard Bootstrap UCL	0.9
Anderson-Darling Test Statistic	0.763	95% Bootstrap-t UCL	0.9
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL	0.9
Kolmogorov-Smirnov Test Statistic	0.149	95% Percentile Bootstrap UCL	0.9
Kolmogorov-Smirnov 5% Critical Value	0.128	95% BCA Bootstrap UCL	0.9
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	1.0
		97.5% Chebyshev(Mean, Sd) UCL	1.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.1
95% Approximate Gamma UCL	0.951		
95% Adjusted Gamma UCL	0.953		
Potential UCL to Use		Use 95% Student's-t UCL	0.9
ult or 1/2 SDL (boron)			
	General S		46
ult or 1/2 SDL (boron)  Number of Valid Samples	General S	Statistics  Number of Unique Samples	46
		Number of Unique Samples  Log-transformed Statistics	
Number of Valid Samples		Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	
Number of Valid Samples Raw Statistics	48	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-0.54 3.8
Number of Valid Samples  Raw Statistics  Minimum	0.58	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-0.54 3.8
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.58 46.2 14.49 11.4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-0.54 3.8 2.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.58 46.2 14.49	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-0.54 3.8 2.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.58 46.2 14.49 11.4	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-0.54 3.8 2.0
Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.58 46.2 14.49 11.4 12.22	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-0.54 3.8 2.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.58 46.2 14.49 11.4 12.22 0.844	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-0.54 3.8 2.0
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.58 46.2 14.49 11.4 12.22 0.844 0.839	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-0.54 3.8 2.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.58 46.2 14.49 11.4 12.22 0.844 0.839	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-0.54 3.8 2.0 1.4
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.58 46.2 14.49 11.4 12.22 0.844 0.839	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-0.54 3.8 2.0 1.4 0.8 0.9

	BEET REAL		
Assuming Normal Distribution	<u> </u>	Assuming Lognormal Distribution	
95% Student's-t UCL	17.45	95% H-UCL	40.7
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	46.66
95% Adjusted-CLT UCL	17.62	97.5% Chebyshev (MVUE) UCL	57.72
95% Modified-t UCL	17.48	99% Chebyshev (MVUE) UCL	79.44
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.853	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	16.98		
nu star	81.9		or 1 h 1947 ann 2 h 1 f 1 f 1 f 1 f 1 f 1 f 1 f 1 f 1 f 1
Approximate Chi Square Value (.05)	62.05	Nonparametric Statistics	MC4
Adjusted Level of Significance	0.045	95% CLT UCL	17.39
Adjusted Chi Square Value	61.51	95% Jackknife UCL	17.45
		95% Standard Bootstrap UCL	17.3
Anderson-Darling Test Statistic	1.863	95% Bootstrap-t UCL	17.73
Anderson-Darling 5% Critical Value	0.784	95% Hall's Bootstrap UCL	17.66
Kolmogorov-Smirnov Test Statistic	0.164	95% Percentile Bootstrap UCL	17.35
Kolmogorov-Smirnov 5% Critical Value	0.132	95% BCA Bootstrap UCL	17.58
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	22.18
		97.5% Chebyshev(Mean, Sd) UCL	25.5
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	32.04
95% Approximate Gamma UCL	19.12		
95% Adjusted Gamma UCL	19.29		
•			
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	32.04
Potential UCL to Use  sult or 1/2 SDL (cadmium)	General Sta		32.04
	General Sta		32.04
Sult or 1/2 SDL (cadmium)  Number of Valid Samples		atistics  Number of Unique Samples	
Sult or 1/2 SDL (cadmium)  Number of Valid Samples  Raw Statistics	48	Number of Unique Samples  Log-transformed Statistics	35
Number of Valid Samples  Raw Statistics  Minimum	0.0029	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	35
Sult or 1/2 SDL (cadmium)  Number of Valid Samples  Raw Statistics	48	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	35 -5.843 -0.734
Sult or 1/2 SDL (cadmium)  Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.0029	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	35 -5.843 -0.734 -3.439
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0029 0.48 0.103 0.0158	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	35 -5.843 -0.734 -3.439
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0029 0.48 0.103	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	35 -5.843 -0.734 -3.439
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.0029 0.48 0.103 0.0158 0.146	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	35 -5.843 -0.734 -3.439
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation	0.0029 0.48 0.103 0.0158 0.146 1.423	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	35 -5.843 -0.734 -3.439
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	0.0029 0.48 0.103 0.0158 0.146 1.423	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	35 -5.843 -0.734 -3.439
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	35 -5.843 -0.734 -3.439 1.593
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test  Shapiro Wilk Test Statistic	35 -5.843 -0.734 -3.439 1.593
Raw Statistics  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	35 -5.843 -0.734 -3.439 1.593
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test  Shapiro Wilk Test Statistic	35 -5.843 -0.734 -3.439 1.593
Raw Statistics  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	35 -5.843 -0.734 -3.439 1.593
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	35 -5.843 -0.734 -3.439 1.593 0.869 0.947
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467  Relevant UCL 0.691 0.947	Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	35 -5.843 -0.734 -3.439 1.593 0.869 0.947
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0029 0.48 0.103 0.0158 0.146 1.423 1.467  Relevant UCL 0.691 0.947	Assuming Lognormal Distribution  Patistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-5.843 -0.734

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.52	Data do not follow a Discernable Distribution (0.0)	5)
Theta Star	0.198		
nu star	49.9		
Approximate Chi Square Value (.05)	34.68	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.045	95% CLT UCL	0.137
Adjusted Chi Square Value	34.29	95% Jackknife UCL	0.138
		95% Standard Bootstrap UCL	0.13
Anderson-Darling Test Statistic	3.459	95% Bootstrap-t UCL	0.14
Anderson-Darling 5% Critical Value	0.81	95% Hall's Bootstrap UCL	0.14
Kolmogorov-Smirnov Test Statistic	0.286	95% Percentile Bootstrap UCL	0.13
Kolmogorov-Smirnov 5% Critical Value	0.135	95% BCA Bootstrap UCL	0.14
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.19
		97.5% Chebyshev(Mean, Sd) UCL	0.23
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.31
95% Approximate Gamma UCL	0.148		
95% Adjusted Gamma UCL	0.15		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.31
Number of Valid Samples	General State	Number of Unique Samples	35
		Number of Unique Samples	35
Number of Valid Samples  Raw Statistics  Minimum		Number of Unique Samples  Log-transformed Statistics	35 -5.507
Raw Statistics	48	Number of Unique Samples	
Raw Statistics Minimum	0.0040	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-5.507 -1.959
Raw Statistics Minimum Maximum	0.0040 0.141	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.507 -1.959 -4.698
Raw Statistics  Minimum  Maximum  Mean	0.0040 0.141 0.0192	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.507 -1.959 -4.698
Raw Statistics  Minimum  Maximum  Mean  Median	0.0040 0.141 0.0192 0.0055	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.507 -1.959 -4.698
Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.0040 0.141 0.0192 0.0055 0.0315	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.507 -1.959 -4.698
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.507 -1.959 -4.698
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0040 0.141 0.0192 0.0055 0.0315 1.637	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.507 -1.959 -4.698
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.507
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-5.507 -1.959 -4.698 1.04
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.507 -1.959 -4.698 1.04
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-5.507 -1.959 -4.698 1.04
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-5.507 -1.959 -4.698 1.04:
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515  Relevant UCL S 0.54 0.947	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-5.507 -1.959 -4.698 1.04: 0.68: 0.94
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515  Relevant UCL S 0.54 0.947	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-5.507 -1.959 -4.698 1.04: 0.68: 0.94'
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515  Relevant UCL S 0.54 0.947	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.507 -1.959 -4.698 1.04 0.68 0.94
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  R  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515  Relevant UCL S 0.54 0.947  0.0269	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.507 -1.959 -4.698 1.04 0.68 0.94 0.022 0.032
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515  Relevant UCL S 0.54 0.947  0.0269	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-5.507 -1.959 -4.698 1.04 0.688 0.94 0.022 0.033 0.043
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL  95% Modified-t UCL	0.0040 0.141 0.0192 0.0055 0.0315 1.637 2.515  Relevant UCL S 0.54 0.947  0.0269  0.0285 0.0271	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL	-5.507 -1.959 -4.698 1.04 0.68 0.94 0.02 0.02 0.03 0.04

Approximate Chi Square Value (.05)	54.22	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.026
Adjusted Chi Square Value	53.72	95% Jackknife UCL	0.020
		95% Standard Bootstrap UCL	0.020
Anderson-Darling Test Statistic	8.173	95% Bootstrap-t UCL	0.03
Anderson-Darling 5% Critical Value	0.79	95% Hall's Bootstrap UCL	0.02
Kolmogorov-Smirnov Test Statistic	0.369	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.133	95% BCA Bootstrap UCL	0.02
Data not Gamma Distributed at 5% Significance L	evel .	95% Chebyshev(Mean, Sd) UCL	0.03
		97.5% Chebyshev(Mean, Sd) UCL	0.04
Assuming Gamma Distribution	1	99% Chebyshev(Mean, Sd) UCL	0.06
95% Approximate Gamma UCL	0.0259		**************************************
95% Adjusted Gamma UCL	0.0261		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.06
ult or 1/2 SDL (carbon disulfide)			
	General Sta		
Number of Valid Samples	48	Number of Unique Samples	38
Raw Statistics	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Log-transformed Statistics	negane. Sermente de com
Minimum	5.9000E-5	Minimum of Log Data	-9.738
Maximum	0.0069	Maximum of Log Data	-4.963
Mean	5.2498E-4	Mean of log Data	-9.042
Median	7.1500E-5	SD of log Data	1.24
, SD	0.0014		
Coefficient of Variation	2.753		
Skewness	3.417		
	Relevant UCL	Chatintina	
Normal Distribution Test	Relevant OCL	Lognormal Distribution Test	·
Shapiro Wilk Test Statistic	0.369	Shapiro Wilk Test Statistic	0.52
Shapiro Wilk Critical Value	L	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	8.7506E-4	95% H-UCL 4	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL 4	
95% Adjusted-CLT UCL	9.7810E-4	97.5% Chebyshev (MVUE) UCL 5	5.9875E
95% Modified-t UCL	8.9220E-4	99% Chebyshev (MVUE) UCL	3.0588E
Gamma Distribution Test	,,	Data Distribution	***************************************
	0.422	Data do not follow a Discernable Distribution (0.05	5)
k star (bias corrected)	0.0012		
k star (bias corrected) Theta Star	, 0.00,1_	CHERTHEN AND COLOR OF SMALL THE CALL THE CHART WAS THE CHA	<del></del>
·	40.53		
Theta Star		Nonparametric Statistics	
Theta Star nu star Approximate Chi Square Value (.05)	40.53	Nonparametric Statistics 95% CLT UCL 8	3.6816E
Theta Star nu star	40.53 26.94	•	
Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	40.53 26.94 0.045	95% CLT UCL 8	3.7506E

		he Base Nastana a	。 <u>英語記 - <b>pai</b>r</u> ( <b>) (</b>	igiinagawai	lyvensians.		John Christian (C
Anderson-Darling 5% Critical Value	0.829			95	% Hall's F	Bootstrap UCL	8 5064E-
Kolmogorov-Smirnov Test Statistic	1					Bootstrap UCL	1
Kolmogorov-Smirnov 5% Critical Value	Į.		and a second second second second second second second second second second second second second second second			Sootstrap UCL	<u> </u>
Data not Gamma Distributed at 5% Significance I			05			ean, Sd) UCL	0.001
Data for damina Distributed at 3% Significance i	1				•	ean, Sd) UCL	0.001
Assuming Gamma Distribution				reducerate to the description		ean, Sd) UCL	0.002
95% Approximate Gamma UCL	7 8974F-4	***************************************		70 Ones	Dy3116V(IVI	ean, ou) ool	0.002
95% Adjusted Gamma UCL	1						
Potential UCL to Use			Use 99%	6 Cheb	yshev (M	ean, Sd) UCL	0.002
		adi atau tana ayay ayaa ahaa ahaa ahaa ahaa ahaa a					
esult or 1/2 SDL (chromium)							
	General	Statistics		**************************************			
Number of Valid Samples	48			Num	ber of Un	ique Samples	42
Raw Statistics	annaled or switcheshales are in across sairs.		Log-tra	ınsform	ned Statis	tics	1.1
Minimum	8.96		EL PILOL EL COLO DE LA		Minimur	n of Log Data	2.193
Maximum	44.6		. Sec. 1		Maximur	n of Log Data	3.798
Mean	15.07				Mea	an of log Data	2.667
Median	14.1				S	D of log Data	0.286
SD	5.536				~	ooguv manina yanna vii vii vii vii vii vii vii vii vii vi	
Coefficient of Variation	0.367		and the second of the second o			neren er far fir fir den fræde skede er fræde er fræde fræde fræde fræde fræde fræde fræde fræde fræde fræde f	
Skewness	3.399						
	Relevant U	CL Statistics	eventile en el estate en estate en estate en estate en estate en estate en estate en estate en estate en estate		· · · · · · · · · · · · · · · · · · ·	anana kanan kanan kanan ya masa kana	11.14. Martin Carlo 11.14.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
Normal Distribution Test	Mitable after course the the threatening of the little action		Lognorr	nal Dis	tribution	Test	
Shapiro Wilk Test Statistic	0.716			Sha	piro Wilk	Test Statistic	0.918
Shapiro Wilk Critical Value	0.947		**************************************	Sha	piro Wilk	Critical Value	0.947
Data not Normal at 5% Significance Level		D	ata not Lognor	mal at	5% Signi	icance Level	
Assuming Normal Distribution			Assuming	Lognor	rmal Dist	ibution	WATER MINISTER OF THE PROPERTY
95% Student's-t UCL	16.41		ween to have the harmonia to be a second of		abrasti rilati ventarea estrafarea	95% H-UCL	16.14
95% UCLs (Adjusted for Skewness)	<u> </u>		9	95% Ch	nebyshev	(MVUE) UCL	17.73
95% Adjusted-CLT UCL	16.81		97	.5% Ch	nebyshev	(MVUE) UCL	18.91
95% Modified-t UCL	16.48		9	99% Ch	ebyshev	(MVUE) UCL	21.24
Gamma Distribution Test			Da	ata Dist	tribution	TORREST STATES HERE THE STATE OF THE STATES	· Mariana de la compositione de
k star (bias corrected)	10.44	Data	do not follow a	Disce	rnable Di	stribution (0.	)5)
Theta Star	1.443	and the second s			***************************************	(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
nu star	1003		Mangalah Laguston, kat <sub>ila</sub> n dapat Nagalanga Tel ((A) yan yanga (an kipen		TARAFIE MANAGAMINTANTI I ATTAR		
Approximate Chi Square Value (.05)	930.2	**************************************	Nonpa	rametr	ric Statist	ics	
Adjusted Level of Significance	0.045		**************************************		9	5% CLT UCL	16.39
Adjusted Chi Square Value	928	and demandered the contract that the contract the	·····································		95% J	ackknife UCL	16.41
				95% St	andard B	ootstrap UCL	16.4
Anderson-Darling Test Statistic	1.41				95% Bo	otstrap-t UCL	17.14
Anderson-Darling 5% Critical Value	0.749			95%	6 Hall's B	ootstrap UCL	22.68
Kolmogorov-Smirnov Test Statistic	0.175		9	5% Pei	rcentile B	ootstrap UCL	16.47
Tomogorov Ommilov rost statistic	:						
Kolmogorov-Smirnov 5% Critical Value	0.128		11.15	95	% BCA B	ootstrap UCL	16.94
_	0.128		95%			ootstrap UCL ean, Sd) UCL	16.94 18.56

Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	23.0
95% Approximate Gamma UCL	16.25		
95% Adjusted Gamma UCL	16.29		
Potential UCL to Use		Use 95% Student's-t UCL	16.4
		or 95% Modified-t UCL	16.4
lt or 1/2 SDL (chromium vi)			
	General Stat	tistics	oden Montestano
Number of Valid Samples	25	Number of Unique Samples	25
Raw Statistics		Log-transformed Statistics	MATHEMATICAL STREET
Minimum	0.181	Minimum of Log Data	-1.7
Maximum	4.04	Maximum of Log Data	1.3
Mean	0.956	Mean of log Data	-0.68
Median	0.284	SD of log Data	1.
SD	1.207		······
Coefficient of Variation	1.263		
Skewness	1.817		
	Relevant UCL S	<b>Statistics</b>	***************************************
Normal Distribution Test	and the state of t	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.672	Shapiro Wilk Test Statistic	0.8
Shapiro Wilk Critical Value	0.918	Shapiro Wilk Critical Value	0.9
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.369	95% H-UCL	1.6
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.8
95% Adjusted-CLT UCL	1.447	97.5% Chebyshev (MVUE) UCL	2.3
95% Modified-t UCL	1.383	99% Chebyshev (MVUE) UCL	3.
Gamma Distribution Test		Data Distribution	/
k star (bias corrected)	0.831	Data do not follow a Discernable Distribution (0.05	3
Theta Star	1.15	Data do not ionow a Disconnable Distribution (0.00	' <i>)</i>
nu star	41.53		t - MAT the Full control, was Travelle
Approximate Chi Square Value (.05)	27.76	Nonparametric Statistics	
Adjusted Level of Significance	0.0395	95% CLT UCL	1.3
Adjusted Chi Square Value	26.99	95% Jackknife UCL	1.3
		95% Standard Bootstrap UCL	1.3
Anderson-Darling Test Statistic	2.142	95% Bootstrap-t UCL	1.5
Anderson-Darling 5% Critical Value	0.777	95% Hall's Bootstrap UCL	1.3
Kolmogorov-Smirnov Test Statistic	0.254	95% Percentile Bootstrap UCL	1.3
Kolmogorov-Smirnov 5% Critical Value	0.18	95% BCA Bootstrap UCL	1.4
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	2.0
		97.5% Chebyshev(Mean, Sd) UCL	2.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	3.3
	1.43		3.3

ult or 1/2 SDL (chrysene)			***************************************
	General Stat	istics	la Barandya yi barahir asaa ayi aba
Number of Valid Samples	48	Number of Unique Samples	39
Raw Statistics		Log-transformed Statistics	
Minimum	0.0037	Minimum of Log Data	-5.579
Maximum	4.05	Maximum of Log Data	1.39
Mean	0.217	Mean of log Data	-3.867
Median	0.0077	SD of log Data	1.84
SD	0.715		
Coefficient of Variation	3.295		
Skewness	4.448		
	Relevant UCL S	tolistica	
Normal Distribution Test	relevant OCL 3	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.344	Shapiro Wilk Test Statistic	0.80
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	*******************
Assuming Normal Distribution	gillateriate game gile park ogsåren god graf kansgale, panga (s 1984) blette bli spil	Assuming Lognormal Distribution	
95% Student's-t UCL	0.39	95% H-UCL	0.28
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.27
95% Adjusted-CLT UCL	0.457	97.5% Chebyshev (MVUE) UCL	0.35
95% Modified-t UCL	0.401	99% Chebyshev (MVUE) UCL	0.49
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.291	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.746		ga 18a 12a 2 A F Ph.Pa 1 2 148 6 6 4 4
nu star	27.93		v
Approximate Chi Square Value (.05)	16.88	Nonparametric Statistics	***************************************
Adjusted Level of Significance	0.045	95% CLT UCL	0.38
Adjusted Chi Square Value	16.61	95% Jackknife UCL	0.39
		95% Standard Bootstrap UCL	0.38
Anderson-Darling Test Statistic	6.798	95% Bootstrap-t UCL	0.91
Anderson-Darling 5% Critical Value	0.864	95% Hali's Bootstrap UCL	1.02
Kolmogorov-Smirnov Test Statistic	0.262	95% Percentile Bootstrap UCL	0.39
Kolmogorov-Smirnov 5% Critical Value	0.139	95% BCA Bootstrap UCL	0.48
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.66
		97.5% Chebyshev(Mean, Sd) UCL	0.86
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.24
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.359		,
oo 76 / Myddied Garrinia OOL	0.000		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.24

Number of Valid Samples	General 48	Number of Unique Samples	46
Number of Valid Samples	+0	Number of Offique Saffiples	+0
Raw Statistics		Log-transformed Statistics	
Minimum	3	Minimum of Log Data	1.09
Maximum	9.89	Maximum of Log Data	2.29
Mean	6.977	Mean of log Data	1.92
Median	7.29	SD of log Data	0.2
SD	1.408		<b>V</b>
Coefficient of Variation	0.202		ryryrama.man
Skewness	-0.339		
	Relevant U	DL Statistics	
Normal Distribution Test		Lognormal Distribution Test	Maritimetry (right brown
Shapiro Wilk Test Statistic	0.973	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.9
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	and the law reduced to the control of the control o	Assuming Lognormal Distribution	
95% Student's-t UCL	7.318	95% H-UCL	7.3
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	7.9
95% Adjusted-CLT UCL	7.3	97.5% Chebyshev (MVUE) UCL	8.4
95% Modified-t UCL	7.316	99% Chebyshev (MVUE) UCL	9.2
Gamma Distribution Test	n Chant an annual phagain ann ann ann an ann an ann an ann an an	Data Distribution	
k star (bias corrected)	21.03	Data appear Normal at 5% Significance Level	
Theta Star	0.332		
nu star	2019		lantur. 111-jan 11-territor
Approximate Chi Square Value (.05)	1915	Nonparametric Statistics	7.0
Adjusted Level of Significance	0.045	95% CLT UCL	7.3
Adjusted Chi Square Value	1912	95% Jackknife UCL	7.3
		95% Standard Bootstrap UCL	7.3
Anderson-Darling Test Statistic	0.753	95% Bootstrap-t UCL	7.3
Anderson-Darling 5% Critical Value	0.748	95% Hall's Bootstrap UCL	7.3
Kolmogorov-Smirnov Test Statistic	0.15	95% Percentile Bootstrap UCL	7.2
Kolmogorov-Smirnov 5% Critical Value	0.128	95% BCA Bootstrap UCL	7.2
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	7.8
		97.5% Chebyshev(Mean, Sd) UCL	8.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	8.9
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	7.353 7.365		
Potential UCL to Use	44,000	Use 95% Student's-t UCL	7.3
ult or 1/2 SDL (copper)			
	General S	Statistics	8791c1 Eslat 1 168 c PANASIA 1
Number of Valid Samples	48	Number of Unique Samples	44
Raw Statistics	-1	Log-transformed Statistics	
raw alausies		Log-nansionneo alansics	

3.892	Maximum of Log Data	49	Maximum
2.553	Mean of log Data	14.49	Mean
0.471	SD of log Data	13.15	Median
		8.49	SD
		0.586	Coefficient of Variation
		2.371	Skewness
		Relevant UC	
•	Lognormal Distribution Test		Normal Distribution Test
0.95	Shapiro Wilk Test Statistic	0.755	Shapiro Wilk Test Statistic
0.947	Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value
1	Data appear Lognormal at 5% Significance Level		Data not Normal at 5% Significance Level
***************************************	Assuming Lognormal Distribution		Assuming Normal Distribution
16.31	95% H-UCL	16.55	95% Student's-t UCL
18.75	95% Chebyshev (MVUE) UCL		95% UCLs (Adjusted for Skewness)
20.66	97.5% Chebyshev (MVUE) UCL	16.96	95% Adjusted-CLT UCL
24.43	99% Chebyshev (MVUE) UCL	16.62	95% Modified-t UCL
	Data Distribution		Gamma Distribution Test
1	Data appear Lognormal at 5% Significance Level	4.055	k star (bias corrected)
		3.574	Theta Star
		389.3	nu star
	Nonparametric Statistics	344.6	Approximate Chi Square Value (.05)
16.51	95% CLT UCL	0.045	Adjusted Level of Significance
16.55	95% Jackknife UCL	343.3	Adjusted Chi Square Value
16.5	95% Standard Bootstrap UCL	040.0	Adjusted on oquale value
17.15	95% Bootstrap-t UCL	1.342	Anderson-Darling Test Statistic
17.13	95% Hall's Bootstrap UCL	0.753	Anderson-Darling 7% Critical Value
	95% Percentile Bootstrap UCL		Kolmogorov-Smirnov Test Statistic
16.71 17.17	95% BCA Bootstrap UCL	0.159	Kolmogorov-Smirnov 5% Critical Value
	·		
19.83	95% Chebyshev(Mean, Sd) UCL	vei	Data not Gamma Distributed at 5% Significance Le
22.14	97.5% Chebyshev(Mean, Sd) UCL		
26.68	99% Chebyshev(Mean, Sd) UCL		Assuming Gamma Distribution
		16.37 16.43	95% Approximate Gamma UCL 95% Adjusted Gamma UCL
16.55	Use 95% Student's-t UCL		Potential UCL to Use
16.62	or 95% Modified-t UCL	***************************************	
16.31	or 95% H-UCL		
			ult or 1/2 SDL (dibenz(a,h)anthracene)
441 m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	stics	General S	
39	Number of Unique Samples	48	Number of Valid Samples
	Log-transformed Statistics	¥ S	Raw Statistics
-5.752	Minimum of Log Data	0.0031	Minimum
1.068	Maximum of Log Data	2.91	Maximum
-3.828	Mean of log Data	0.203	Mean
	£	0.0188	Median

and the first transfer of process and sections and the second conservate beautiful and and	to está estra respecto de la Timo	al constant (al constant particle and a constant and a second	as deksil tahi
SD	0.625		
Coefficient of Variation	3.076		
Skewness	3.829		
F	Relevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.355	Shapiro Wilk Test Statistic	0.83
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.354	95% H-UCL	0.26
95% UCLs (Adjusted for Skewness)	-11-111	95% Chebyshev (MVUE) UCL	0.26
95% Adjusted-CLT UCL	0.405	97.5% Chebyshev (MVUE) UCL	0.33
95% Modified-t UCL	0.363	99% Chebyshev (MVUE) UCL	0.47
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.302	Data do not follow a Discernable Distribution (0.0)	51
Theta Star	0.672	Data do not follow a Discernador Distribution (c.o.	···
nu star	29.01		
Approximate Chi Square Value (.05)	17.72	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.35
Adjusted Chi Square Value	17.44	95% Jackknife UCL	0.35
		95% Standard Bootstrap UCL	0.35
Anderson-Darling Test Statistic	6.795	95% Bootstrap-t UCL	0.55
Anderson-Darling 5% Critical Value	0.86	95% Hall's Bootstrap UCL	0.35
Kolmogorov-Smirnov Test Statistic	0.33	95% Percentile Bootstrap UCL	0.37
Kolmogorov-Smirnov 5% Critical Value	0.139	95% BCA Bootstrap UCL	0.42
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.59
		97.5% Chebyshev(Mean, Sd) UCL	0.76
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.1
95% Approximate Gamma UCL	0.333		
95% Adjusted Gamma UCL	0.338		***************************************
			**************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1.1
sult or 1/2 SDL (dibenzofuran)			
	General Sta		
Number of Valid Samples	48	Number of Unique Samples	39
Raw Statistics		Log-transformed Statistics	
Minimum	0.0025	Minimum of Log Data	-5.98
Maximum	0.08	Maximum of Log Data	-2.526
Mean	0.0139	Mean of log Data	-4.779
Median	0.0079	SD of log Data	0.93
SD	0.0176		
Coefficient of Variation	1.267		***************************************
Skewness	2.343		

Normal Distribution Test
Shapiro Wilk Critical Value   0.947   Data not Normal at 5% Significance Level
Data not Normal at 5% Significance Level
Assuming Normal Distribution
95% Student's-t UCL
95% UCLs (Adjusted for Skewness)
95% Adjusted-CLT UCL   0.019   97.5% Chebyshev (MVUE) UCL   0.025
Seminary   Seminary
Sym Modified-t UCL
Nonparametric Statistics
Theta Star
Theta Star
Nonparametric Statistics
Approximate Chi Square Value (.05)
Adjusted Level of Significance 0.045 95% CLT UCL 0.01 Adjusted Chi Square Value 80.12 95% Jackknife UCL 0.01 Anderson-Darling Test Statistic 3.619 95% Standard Bootstrap UCL 0.01 Anderson-Darling 5% Critical Value 0.776 95% Hall's Bootstrap-t UCL 0.01 Kolmogorov-Smirnov Test Statistic 0.281 95% Percentile Bootstrap UCL 0.01 Kolmogorov-Smirnov Test Statistic 0.281 95% Percentile Bootstrap UCL 0.01 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.01 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.02 Assuming Gamma Distribution 97.5% Chebyshev(Mean, Sd) UCL 0.03 95% Approximate Gamma UCL 0.0178 95% Adjusted Gamma UCL 0.0179 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 0.02 Result or 1/2 SDL (endosulfan sulfate)  General Statistics Number of Valid Samples 48 Number of Unique Samples 45  Raw Statistics Log-transformed Statistics Minimum 1.4450E-4 Minimum of Log Data -8.842 Maximum 0.06 Maximum of Log Data -2.813
Adjusted Chi Square Value 80.12 95% Jackknife UCL 0.01 95% Standard Bootstrap UCL 0.01 Anderson-Darling Test Statistic 3.619 95% Bootstrap-t UCL 0.01 Anderson-Darling 5% Critical Value 0.776 95% Hall's Bootstrap UCL 0.01 Kolmogorov-Smirnov Test Statistic 0.281 95% Percentile Bootstrap UCL 0.01 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.01 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.02 Assuming Gamma Distribution 97.5% Chebyshev(Mean, Sd) UCL 0.03 95% Approximate Gamma UCL 0.0178 95% Adjusted Gamma UCL 0.0179 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 0.02 Result or 1/2 SDL (endosulfan sulfate)  General Statistics Number of Valid Samples 48 Number of Unique Samples 45  Raw Statistics Log-transformed Statistics Minimum 1.4450E-4 Minimum of Log Data -8.842 Maximum 0.06 Maximum of Log Data -2.813
Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value O.776 Anderson-Darling 5% Critical Value O.776 Sephali's Bootstrap UCL O.01 Kolmogorov-Smirnov Test Statistic O.281 Sephanov Smirnov 5% Critical Value O.131 Sephanov Smirnov Smirnov 5% Critical Value O.131 Sephanov Smirnov Smirnov 5% Critical Value O.131 Sephanov Smirnov
Anderson-Darling Test Statistic Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Anderson-Darling 5% Critical Value Nolmogorov-Smirnov Test Statistic Nolmogorov-Smirnov Test Statistic Data not Gamma Distributed at 5% Significance Level Data not Gamma Distributed at 5% Significance Level Data not Gamma Distributed at 5% Significance Level P5% Chebyshev(Mean, Sd) UCL P5% Approximate Gamma UCL P5% Adjusted Gamma UCL P5% Adjusted Gamma UCL P5% Adjusted Gamma UCL P5% Chebyshev (Mean, Sd) UCL P5% Chebyshev (Mean, Sd) UCL P5% Adjusted Gamma UCL P5% Adjusted Gamma UCL P5% Chebyshev (Mean, Sd) UCL P5% Chebysh
Anderson-Darling 5% Critical Value
Kolmogorov-Smirnov Test Statistic 0.281 95% Percentile Bootstrap UCL 0.01 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.01 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.02 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.03 95% Approximate Gamma UCL 0.0178 95% Adjusted Gamma UCL 0.0179 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 0.02  Result or 1/2 SDL (endosulfan sulfate)  General Statistics Number of Valid Samples 48 Number of Unique Samples 45  Raw Statistics  Minimum 1.4450E-4 Minimum of Log Data -8.842 Maximum 0.06 Maximum of Log Data -2.813
Kolmogorov-Smirnov 5% Critical Value   0.131   95% BCA Bootstrap UCL   0.01
Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 0.02  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 0.03  95% Approximate Gamma UCL 0.0178  95% Adjusted Gamma UCL 0.0179  Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 0.02  Result or 1/2 SDL (endosulfan sulfate)  General Statistics  Number of Valid Samples 48 Number of Unique Samples 45  Raw Statistics  Log-transformed Statistics  Minimum 1.4450E-4 Minimum of Log Data -8.842  Maximum 0.06 Maximum of Log Data -2.813
97.5% Chebyshev(Mean, Sd) UCL   0.02   Assuming Gamma Distribution   99% Chebyshev(Mean, Sd) UCL   0.03   95% Approximate Gamma UCL   0.0178     95% Adjusted Gamma UCL   0.0179
Assuming Gamma Distribution 99% Chebyshev (Mean, Sd) UCL 0.03 95% Approximate Gamma UCL 0.0178 95% Adjusted Gamma UCL 0.0179 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 0.02  Result or 1/2 SDL (endosulfan sulfate)  General Statistics Number of Valid Samples 48 Number of Unique Samples 45  Raw Statistics  Minimum 1.4450E-4 Minimum of Log Data -8.842 Maximum 0.06 Maximum of Log Data -2.813
95% Approximate Gamma UCL
Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 0.02  esult or 1/2 SDL (endosulfan sulfate)  General Statistics  Number of Valid Samples 48 Number of Unique Samples 45  Raw Statistics  Minimum 1.4450E-4 Minimum of Log Data -8.842  Maximum 0.06 Maximum of Log Data -2.813
General Statistics  Number of Valid Samples 48 Number of Unique Samples 45  Raw Statistics  Log-transformed Statistics  Minimum 1.4450E-4 Minimum of Log Data -8.842  Maximum 0.06 Maximum of Log Data -2.813
General Statistics   Number of Valid Samples   48   Number of Unique Samples   45
Number of Valid Samples 48 Number of Unique Samples 45  Raw Statistics Log-transformed Statistics  Minimum 1.4450E-4 Minimum of Log Data -8.842  Maximum 0.06 Maximum of Log Data -2.813
Raw Statistics Log-transformed Statistics  Minimum 1.4450E-4 Minimum of Log Data -8.842  Maximum 0.06 Maximum of Log Data -2.813
Minimum         1.4450E-4         Minimum of Log Data         -8.842           Maximum         0.06         Maximum of Log Data         -2.813
Maximum 0.06 Maximum of Log Data -2.813
Mean 0.0018 Mean of log Data -8.104
Median 2.1800E-4 SD of log Data 1.16
SD 0.0087
Coefficient of Variation 4.664
Skewness 6.541
Relevant UCL Statistics
Normal Distribution Test Lognormal Distribution Test
Shapiro Wilk Test Statistic 0.213 Shapiro Wilk Test Statistic 0.55
Shapiro Wilk Test Statistic 0.213 Shapiro Wilk Test Statistic 0.55 Shapiro Wilk Critical Value 0.947 Shapiro Wilk Critical Value 0.94

Assuming Normal Distribution	Internal Education	Assuming Lognormal Distribution	
95% Student's-t UCL	0.0039	95% H-UCL 9	0895F
95% UCLs (Adjusted for Skewness)	0.0000	95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0052	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0041	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test	0.057	Data Distribution	·\
k star (bias corrected) Theta Star	0.357 0.0052	Data do not follow a Discernable Distribution (0.05	")
	34.27		**************************************
nu star Approximate Chi Square Value (.05)	21.88	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.0
Adjusted Level of Significance Adjusted Chi Square Value	21.57	95% Jackknife UCL	0.0
Adjusted Off Oquale Value	21.37	95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	13.04	95%·Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.846	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.466	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.138	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le	1	95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0029		
95% Adjusted Gamma UCL	0.0029		
· · · · · · · · · · · · · · · · · · ·	1	· · · · · · · · · · · · · · · · · · ·	
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.0
	General Stati		0.0
	General Stati		0.0
or 1/2 SDL (endrin aldehyde)  Number of Valid Samples		istics  Number of Unique Samples	
or 1/2 SDL (endrin aldehyde)  Number of Valid Samples  Raw Statistics	48	Stics  Number of Unique Samples  Log-transformed Statistics	46
or 1/2 SDL (endrin aldehyde)  Number of Valid Samples  Raw Statistics		Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	46 -8.53
Number of Valid Samples  Raw Statistics  Minimum  Maximum	1.9700E-4	Stics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-8.53 -4.60
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	1.9700E-4 0.01	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	1.9700E-4 0.01 0.0010	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	46 -8.53 -4.60 -7.75
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	1.9700E-4 0.01 0.0010 2.8000E-4	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-8.53 -4.60 -7.75
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-8.53 -4.60 -7.75
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.53 -4.60 -7.75
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.53 -4.60 -7.75
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-8.53 -4.60 -7.75
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-8.53 -4.60 -7.75 1.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106 Relevant UCL St	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  tatistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	46 -8.53 -4.60 -7.75 1.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106 Relevant UCL St	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data	46 -8.53 -4.60 -7.75 1.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106 Relevant UCL St	Istics    Log-transformed Statistics     Minimum of Log Data     Maximum of Log Data     Mean of log Data     SD of log Data     SD of log Data     Shapiro Wilk Test Statistic     Shapiro Wilk Critical Value     Data not Lognormal at 5% Significance Level	46 -8.53 -4.60 -7.75 1.0
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106 Relevant UCL St	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	46 -8.53 -4.60 -7.75 1.0 0.6 0.9
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	1.9700E-4 0.01 0.0010 2.8000E-4 0.0022 2.063 3.106 Relevant UCL St	Istics    Log-transformed Statistics     Minimum of Log Data     Maximum of Log Data     Mean of log Data     SD of log Data     SD of log Data     Shapiro Wilk Test Statistic     Shapiro Wilk Critical Value     Data not Lognormal at 5% Significance Level	46 -8.53 -4.60 -7.75 1.0

			120,700 E. Torde 160, 180,560 E. Torde
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.626	Data do not follow a Discernable Distribution (0.	05)
Theta Star	0.0017		
nu star	60.13		
Approximate Chi Square Value (.05)	43.3	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.00
Adjusted Chi Square Value	42.86	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	8.68	95% Bootstrap-t UCL	0.00
Anderson-Darling 5% Critical Value	0.8	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.36	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.134	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.00
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.00
95% Approximate Gamma UCL	0.0015		
95% Adjusted Gamma UCL	0.0015		***************************************
33707 Algadea Garrina 3362	0.0010		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.00
ult or 1/2 SDL (endrin ketone)			
Number of Valid Samples	General Stat	tistics  Number of Unique Samples	47
Number of valid Samples		Number of Onique Campies	7/
Raw Statistics		Log-transformed Statistics	
Minimum	1.8950E-4	Minimum of Log Data	-8.571
Maximum	0.013	Maximum of Log Data	-4.343
Mean	7.8543E-4	Mean of log Data	-7.945
Median	2.7550E-4	SD of log Data	0.86
SD	0.0020		
Coefficient of Variation	2.622		
Skewness	5.076		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
F	Relevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	u arnonimis de materiori di travillo
Shapiro Wilk Test Statistic	0.31	Shapiro Wilk Test Statistic	0.56
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0012	95% H-UCL	
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	8.2500E-
95% Adjusted-CLT UCL	0.0015	97.5% Chebyshev (MVUE) UCL	9.6143E-
95% Modified-t UCL	0.0013	99% Chebyshev (MVUE) UCL	0.00
	MILLION NO		
Gamma Dietribution Tost		Data Distribution	
Gamma Distribution Test	0.740	Data Distribution	)E)
Gamma Distribution Test  k star (bias corrected)  Theta Star	0.719	Data Distribution  Data do not follow a Discernable Distribution (0.0	05)
	0.719		)5)

	Tyles by Barran		energakoroko
Approximate Chi Square Value (.05)	50.86	Nonparametric Statistics	
Adjusted Level of Significance		95% CLT UCL	0.0012
Adjusted Chi Square Value	}	95% Jackknife UCL	0.001
		95% Standard Bootstrap UCL	0.0012
Anderson-Darling Test Statistic	11.56	95% Bootstrap-t UCL	0.002
Anderson-Darling 5% Critical Value	0.792	95% Hall's Bootstrap UCL	0.002
Kolmogorov-Smirnov Test Statistic	0.412	95% Percentile Bootstrap UCL	0.001
Kolmogorov-Smirnov 5% Critical Value	0.133	95% BCA Bootstrap UCL	0.001
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	0.002
		97.5% Chebyshev(Mean, Sd) UCL	0.002
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.003
95% Approximate Gamma UCL	0.0010		Anderson might with the market
95% Adjusted Gamma UCL	0.0010		***************************************
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.002
Result or 1/2 SDL (fluoranthene)			
	General	Statistics	
Number of Valid Samples	48	Number of Unique Samples	34
Raw Statistics	THE PROPERTY OF THE PROPERTY O	Log-transformed Statistics	100 \$1,100 BY 11 OLIVING 11 OLIVING
Minimum	0.0032		-5.734
Maximum	2.17	Maximum of Log Data	0.775
Mean	0.108	Mean of log Data	-4.039
Median	0.0065		1.566
SD	0.368		
Coefficient of Variation	3.399		
Skewness	4.909		
F	Relevant UC	CL Statistics	many-nu-ro-me-w
Normal Distribution Test		Lognormal Distribution Test	
·Shapiro Wilk Test Statistic	0.309	Shapiro Wilk Test Statistic	0.815
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.198	Assuming Lognormal Distribution 95% H-UCL	0.119
95% UCLs (Adjusted for Skewness)	0.130	95% Chebyshev (MVUE) UCL	0.119
95% Adjusted-CLT UCL	0.236	97.5% Chebyshev (MVUE) UCL	0.132
95% Modified-t UCL	0.204	99% Chebyshev (MVUE) UCL	0.229
			***********************
Gamma Distribution Test	-	Data Distribution	
k star (bias corrected)	0.358	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.302		
nu·star	34.4		
Approximate Chi Square Value (.05)	21.98	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.196
Adjusted Chi Square Value	21.67	95% Standard Registran LICI	0.198 0.196
Andorron Dayling Test Otalical	6 501	95% Standard Bootstrap UCL	
Anderson-Darling Test Statistic	6.501	95% Bootstrap-t UCL	0.656

	ACE \$640 A M20 CB ( 10.7)		
Anderson-Darling 5% Critical Value	0.846	95% Hall's Bootstrap UCL	0.596
Kolmogorov-Smirnov Test Statistic	0.282	95% Percentile Bootstrap UCL	0.206
Kolmogorov-Smirnov 5% Critical Value	0.138	95% BCA Bootstrap UCL	0.264
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.34
		97.5% Chebyshev(Mean, Sd) UCL	0.44
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.637
95% Approximate Gamma UCL	0.17		
95% Adjusted Gamma UCL	0.172		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.637
	nonnan-nrantannovaantanov		
result or 1/2 SDL (fluorene)			
	General	Statistics	
Number of Valid Samples	48	Number of Unique Samples	38
Raw Statistics		Log-transformed Statistics	
Minimum	0.0033	Minimum of Log Data	-5.715
Maximum	0.139	Maximum of Log Data	-1.973
Mean	0.0186	Mean of log Data	-4.783
Median	0.0055	SD of log Data	1.084
SD	0.0314		UITIONNI LIBER ORINGE
Coefficient of Variation	1.687		
Coefficient of variation	1.007		
Skewness	2.593	N. Otasiala	
Skewness	2.593	CL Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.73 0.947
Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	2.593 Relevant UC 0.54	Lognormal Distribution Test Shapiro Wilk Test Statistic	0.73 0.947
Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	2.593 Relevant UC 0.54	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	
Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	2.593 Relevant UC 0.54	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	
Skewness  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution	2.593 Relevant UC  0.54  0.947	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level Assuming Lognormal Distribution	0.94
Skewness  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL	2.593 Relevant UC  0.54  0.947	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL	0.94° 0.022 0.022
Normal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	2.593 Relevant UC 0.54 0.947 0.0262	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL	0.94
Skewness  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL	2.593 Relevant UC 0.54 0.947 0.0262 0.0279	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL	0.94° 0.022 0.020 0.033
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	2.593 Relevant UC 0.54 0.947 0.0262 0.0279	Lognormal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0.022 0.022 0.032 0.042
Normal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL	2.593 Relevant UC  0.54 0.947  0.0262  0.0279 0.0265	Lognormal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution	0.027 0.027 0.037 0.047
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected)	2.593  Relevant UC  0.54  0.947  0.0262  0.0265  0.717	Lognormal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution	0.027 0.027 0.037 0.047
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL Gamma Distribution Test k star (bias corrected) Theta Star nu star	2.593  Relevant UC  0.54  0.947  0.0262  0.0279  0.0265  0.717  0.0259	Lognormal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL  99% Chebyshev (MVUE) UCL  Data Distribution	0.02 0.02 0.03 0.04
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	2.593  Relevant UC  0.54  0.947  0.0262  0.0279  0.0265  0.717  0.0259  68.81  50.71	Lognormal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution  Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics	0.02 0.02 0.03 0.04
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	2.593  Relevant UC  0.54  0.947  0.0262  0.0279  0.0265  0.717  0.0259  68.81  50.71  0.045	Lognormal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution  Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL	0.94 0.02 0.02 0.03 0.04
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05)	2.593  Relevant UC  0.54  0.947  0.0262  0.0279  0.0265  0.717  0.0259  68.81  50.71	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	0.02 0.02 0.03 0.04
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Chi Square Value	2.593  Relevant UC  0.54  0.947  0.0262  0.0279  0.0265  0.717  0.0259  68.81  50.71  0.045  50.23	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution  Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	0.94 0.02 0.03 0.04 0.02 0.02 0.02
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value  Anderson-Darling Test Statistic	2.593  Relevant UC  0.54  0.947  0.0262  0.0279  0.0265  0.717  0.0259  68.81  50.71  0.045  50.23	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL Data Distribution  Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.02 0.02 0.04 0.02 0.02 0.02
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	2.593  Relevant UC  0.54  0.947  0.0262  0.0279  0.0265  0.717  0.0259  68.81  50.71  0.045  50.23  7.338  0.792	Lognormal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.02: 0.02: 0.03: 0.04: 0.02: 0.02: 0.02: 0.02:
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	2.593  Relevant UC  0.54  0.947  0.0262  0.0279  0.0265  0.717  0.0259  68.81  50.71  0.045  50.23  7.338  0.792  0.359	Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	0.022 0.022 0.042 0.023 0.023 0.023 0.023 0.024
Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness) 95% Adjusted-CLT UCL 95% Modified-t UCL  Gamma Distribution Test k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	2.593  Relevant UC  0.54  0.947  0.0262  0.0279  0.0265  0.717  0.0259  68.81  50.71  0.045  50.23  7.338  0.792  0.359  0.133	Lognormal Distribution Test  Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 95% Chebyshev (MVUE) UCL 97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL  Data Distribution  Data do not follow a Discernable Distribution (0.05)  Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL 95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.02( 0.02( 0.03) 0.04( 0.02( 0.02( 0.02( 0.02(

	um e Stee		
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.063
95% Approximate Gamma UCL	0.0252		<b></b>
95% Adjusted Gamma UCL	0.0255		
Potential UCL to Use	manage parage and the second	Use 99% Chebyshev (Mean, Sd) UCL	0.063
	***************************************		ection section to the best read
esult or 1/2 SDL (gamma-chlordane)			
	General	Statistics	
Number of Valid Samples	48	Number of Unique Samples	45
Davi Obstitution		Constitution of the second sec	
Raw Statistics	14.00005.4	Log-transformed Statistics	
	1.2000E-4	Minimum of Log Data	-9.028
Maximum			-5.627
	4.0476E-4	Mean of log Data	-8.298
	2.1800E-4	SD of log Data	0.78
SD	6.7074E-4		
Coefficient of Variation	1.657		
Skewness	3.738		
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.435	Shapiro Wilk Test Statistic	0.75
Shapiro Wilk Critical Value	{	Shapiro Wilk Critical Value	0.75
Data not Normal at 5% Significance Level	0.947	Data not Lognormal at 5% Significance Level	0.34
Assuming Normal Distribution	t ki kana mendengan pana anta anta keperantu dan kananapat kan	Assuming Lognormal Distribution	
95% Student's-t UCL	5.6720E-4	95% H-UCL 4.	.2977E-
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL 5.	.1879E-
95% Adjusted-CLT UCL	6.1982E-4	97.5% Chebyshev (MVUE) UCL 5.	
95% Modified-t UCL	(	99% Chebyshev (MVUE) UCL 7.	
	A		
Gamma Distribution Test	7 4 4 7	Data Distribution	
k star (bias corrected)	1	Data do not follow a Discernable Distribution (0.05)	) 
i neta Star nu star	3.6480E-4 106.5		
Approximate Chi Square Value (.05)	83.7	Nonparametric Statistics	umbaratoury/anav
Adjusted Level of Significance	ì	95% CLT UCL 5.	SADOE
Adjusted Chi Square Value		95% Jackknife UCL 5.	
Adjusted Chi Square Value	63.07		**********
MACHINE TO THE THE THE THE THE THE THE THE THE THE		95% Standard Bootstrap UCL 5.	
Anderson-Darling Test Statistic	J	95% Bootstrap-t UCL 7.	
Anderson-Darling 5% Critical Value	1	95% Hall's Bootstrap UCL 6.	
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL 5.	
Kolmogorov-Smirnov 5% Critical Value	[	95% BCA Bootstrap UCL 6.	
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL 8.	
		97.5% Chebyshev(Mean, Sd) UCL	0.00
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.001
95% Approximate Gamma UCL	5.1511E-4		
95% Adjusted Gamma UCL	5.1899E-4		
Potential UCL to Use	The state of the s	Use 95% Chebyshev (Mean, Sd) UCL 8.	2676⊑
Folential OCL to Use	and the state of t	Use 95% Chebysnev (Wean, Su) UCL 8.	∠0/0Ľ-4

lt or 1/2 SDL (indeno(1,2,3-cd)pyrene)			
	General Stat	istics	***************
Number of Valid Samples	48	Number of Unique Samples	40
Raw Statistics		Log-transformed Statistics	
Minimum	0.0065	Minimum of Log Data	-5.03
Maximum	1.94	Maximum of Log Data	0.6
Mean	0.201	Mean of log Data	-3.03
Median	0.0629	SD of log Data	1.6
SD	0.407		
Coefficient of Variation	2.025		
Skewness	2.987		
F	Relevant UCL S	statistics	
Normal Distribution Test		Lognormal Distribution Test	Cade - spensyd LD Ede adestydd
Shapiro Wilk Test Statistic	0.535	Shapiro Wilk Test Statistic	0.8
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.9
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	manner entre recording to the recording	Assuming Lognormal Distribution	
95% Student's-t UCL	0.299	95% H-UCL	0.4
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.4
95% Adjusted-CLT UCL	0.324	97.5% Chebyshev (MVUE) UCL	0.5
95% Modified-t UCL	0.304	99% Chebyshev (MVUE) UCL	0.7
Gamma Distribution Test		Data Distribution	and consequent controllers.
k star (bias corrected)	0.437	Data do not follow a Discernable Distribution (0.05	`
Theta Star	0.46	Data do not lonow a Discernation Distribution (0.00	<i>,</i>
nu star	41.91		
Approximate Chi Square Value (.05)	28.07	Nonparametric Statistics	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Adjusted Level of Significance	0.045	95% CLT UCL	0.2
Adjusted Chi Square Value	27.72	95% Jackknife UCL	0.2
		95% Standard Bootstrap UCL	0.2
Anderson-Darling Test Statistic	3.169	95% Bootstrap-t UCL	0.3
Anderson-Darling 5% Critical Value	0.826	95% Hall's Bootstrap UCL	0.3
Kolmogorov-Smirnov Test Statistic	0.199	95% Percentile Bootstrap UCL	0.3
Kolmogorov-Smirnov 5% Critical Value	0.136	95% BCA Bootstrap UCL	0.3
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.4
		97.5% Chebyshev(Mean, Sd) UCL	0.5
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.7
95% Approximate Gamma UCL	0.3		V
95% Adjusted Gamma UCL	0.304		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.7

General Statistics

Number of Valid Samples	48	Number of Unique Samples	37
			######################################
Raw Statistics	111100	Log-transformed Statistics	
Minimum		Minimum of Log Data	9.31
Maximum	60900	Maximum of Log Data	11.02
Mean		Mean of log Data	9.71
Median	16650	SD of log Data	0.25
SD	6903		
Coefficient of Variation	0.402		
Skewness .	5.582		e que apparent particular de la constitución de la
	Relevant U	CL Statistics	
Normal Distribution Test	and the state of t	· Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.466	Shapiro Wilk Test Statistic	0.75
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	ereg production applying the great Herrice is	Assuming Lognormal Distribution	** 4 M J ** 8 P L M L M L N M ** 1 L T M ** 1
95% Student's-t UCL	18824	95% H-UCL	18113
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	19692
95% Adjusted-CLT UCL	19649	97.5% Chebyshev (MVUE) UCL	20862
95% Modified-t UCL	18958		23161
Gamma Distribution Test	b. 14-2-4	Data Distribution	
k star (bias corrected)	11.83	Data do not follow a Discernable Distribution (0.0	<u> </u>
	1450	Data do not follow a Discernable Distribution (0.0	<b></b>
Theta Star	1430		announce announce of
nu star Approximate Chi Square Value (.05)		Nonparametric Statistics	VIIII
	1058	•	10701
Adjusted Level of Significance	0.045	95% CLT UCL	
Adjusted Chi Square Value	1056	95% Jackknife UCL	18824
	0.400	1	18743
Anderson-Darling Test Statistic	3.403	<u>' 1</u>	20880
Anderson-Darling 5% Critical Value	0.749		25732
Kolmogorov-Smirnov Test Statistic	0.204	· 1	18919
Kolmogorov-Smirnov 5% Critical Value	0.128		20054
Data not Gamma Distributed at 5% Significance Lo	evel		21495
			23374
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	27065
95% Approximate Gamma UCL	18404		
95% Adjusted Gamma UCL	18444		
Potential UCL to Use	Hample commented to conservation and are are as conservation.	Use 95% Student's-t UCL	18824
		or 95% Modified-t UCL	18958
Potential UCL to Use  Jit or 1/2 SDL (lead)			
	General	Statistics	r (tipe ar implied thinks) at
Number of Valid Samples	48	Number of Unique Samples	45
Raw Statistics		Log-transformed Statistics	

			Control Control Control
Maximum	237	Maximum of Log Data	5.468
Mean	<u> </u>	Mean of log Data	2.969
Median	<u> </u>	SD of log Data	0.571
SD	L		
Coefficient of Variation	<u> </u>		
Skewness			olar partirol deliquitation de
	Delevent UCL	Chaliatica	
Normal Distribution Test	Relevant UCL	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.385	Shapiro Wilk Test Statistic	0.778
Shapiro Wilk Critical Value	l	Shapiro Wilk Pest Statistic	0.776
Data not Normal at 5% Significance Level	0.947	Data not Lognormal at 5% Significance Level	0.947
Data not Normal at 3% diginicalite Level		Data not cognomial at 3% significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	anger proposition and anger a restrict or
95% Student's-t UCL	33.62	95% H-UCL	26.93
95% UCLs (Adjusted for Skewness)	L	95% Chebyshev (MVUE) UCL	31.57
95% Adjusted-CLT UCL	37.6	97.5% Chebyshev (MVUE) UCL	35.35
95% Modified-t UCL	34.27	99% Chebyshev (MVUE) UCL	42.77
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.932	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	13.13		
nu star	185.5		*************
Approximate Chi Square Value (.05)	155	Nonparametric Statistics	<b></b>
Adjusted Level of Significance	0.045	95% CLT UCL	33.46
Adjusted Chi Square Value	154.1	95% Jackknife UCL	33.62
		95% Standard Bootstrap UCL	33.36
Anderson-Darling Test Statistic	5.696	95% Bootstrap-t UCL	50.53
Anderson-Darling 5% Critical Value	0.762	95% Hall's Bootstrap UCL	62.18
Kolmogorov-Smirnov Test Statistic	0.264	95% Percentile Bootstrap UCL	34.16
Kolmogorov-Smirnov 5% Critical Value	0.129	95% BCA Bootstrap UCL	39.39
Data not Gamma Distributed at 5% Significance L	evel	95% Chebyshev(Mean, Sd) UCL	46.83
		97.5% Chebyshev(Mean, Sd) UCL	56.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	74.38
95% Approximate Gamma UCL	30.35		
95% Adjusted Gamma UCL	30.52		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	46.83
esult or 1/2 SDL (lithium)			
	General Sta	tistics	gangangan ang ang ang ang
Number of Valid Samples	48	Number of Unique Samples	43
Raw Statistics		Log-transformed Statistics	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Minimum	5.43	Minimum of Log Data	1.692
Maximum	27.6	Maximum of Log Data	3.318
Mean	18.65	Mean of log Data	2.9
Median	18.75	SD of log Data	0.25
SD	3.754		
Coefficient of Variation	0.201		

Skewness	-0.745		
	D-1	OL	
Normal Distribution Test	Relevant UC	CL Statistics  Lognormal Distribution Test	
	0.966	Cognormal Distribution Test Shapiro Wilk Test Statistic	0.81
Shapiro Wilk Certifical Value		Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.81
Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level	i .	Data not Lognormal at 5% Significance Level	0.94
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	•
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	19.56	95% H-UCL	19.99
95% UCLs (Adjusted for Skewness)	1	95% Chebyshev (MVUE) UCL	21.73
95% Adjusted-CLT UCL	19.48	97.5% Chebyshev (MVUE) UCL	23.03
95% Modified-t UCL	19.55	99% Chebyshev (MVUE) UCL	25.5
	1		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	18.42	Data appear Normal at 5% Significance Level	
Theta Star	1.013		
nu star	1768		respective and the monthly of
Approximate Chi Square Value (.05)	1671	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	19.5
Adjusted Chi Square Value	1668	95% Jackknife UCL	19.56
		95% Standard Bootstrap UCL	19.5
Anderson-Darling Test Statistic	1.236	95% Bootstrap-t UCL	19.53
Anderson-Darling 5% Critical Value	0.748	95% Hall's Bootstrap UCL	19.5
Kolmogorov-Smirnov Test Statistic	0.139	95% Percentile Bootstrap UCL	19.5
Kolmogorov-Smirnov 5% Critical Value	0.128	95% BCA Bootstrap UCL	19.49
Data not Gamma Distributed at 5% Significance L	i I	95% Chebyshev(Mean, Sd) UCL	21.02
		97.5% Chebyshev(Mean, Sd) UCL	22.04
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	24.05
95% Approximate Gamma UCL	19.73	3070 Globyshov (Modif, Gd) COL	
95% Adjusted Gamma UCL	19.77		
	10.77		
Potential UCL to Use		Use 95% Student's-t UCL	19.56
sult or 1/2 SDL (manganese)			
	General S	Statistics	
Number of Valid Samples	48	Number of Unique Samples	48
Raw Statistics		Log-transformed Statistics	
Minimum	87.6	Minimum of Log Data	4.47
Maximum	1010	Maximum of Log Data	6.91
Mean	331.8	Mean of log Data	5.63
Median	275	SD of log Data	0.58
SD	205.9		
Coefficient of Variation	0.621		
Skewness	1.558		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.856	Shapiro Wilk Test Statistic	0.9

Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	<b>.</b>
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	381.7	95% H-UCL	392.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	461.4
95% Adjusted-CLT UCL	387.8	97.5% Chebyshev (MVUE) UCL	517.6
95% Modified-t UCL	382.8	99% Chebyshev (MVUE) UCL	627.9
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.977	Data appear Gamma Distributed at 5% Significance	l ovol
Theta Star	111.4	Data appear Garrina Distributed at 3% Significance	LC4C!
	285.8		
nu star			process constant and the second second second second second second second second second second second second se
Approximate Chi Square Value (.05)	247.7	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	380.7
Adjusted Chi Square Value	246.6	95% Jackknife UCL	381.7
		95% Standard Bootstrap UCL	380.3
Anderson-Darling Test Statistic		95% Bootstrap-t UCL	391.8
Anderson-Darling 5% Critical Value	0.756	95% Hall's Bootstrap UCL	391.7
Kolmogorov-Smirnov Test Statistic	0.116	95% Percentile Bootstrap UCL	382.9
Kolmogorov-Smirnov 5% Critical Value	0.129	95% BCA Bootstrap UCL	389.1
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	461.3
		97.5% Chebyshev(Mean, Sd) UCL	517.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	627.5
95% Approximate Gamma UCL	382.9		ar y ar a resident a service d'amount d'annu
95% Adjusted Gamma UCL	384.6		
Potential UCL to Use		Use 95% Approximate Gamma UCL	382.9
sult or 1/2 SDL (mercury)			
	General St		
Number of Valid Samples	48	Number of Unique Samples	36
Raw Statistics		Log-transformed Statistics	
Minimum	0.0012	Minimum of Log Data	-6.685
Maximum	0.081	Maximum of Log Data	-2.513
Mean	0.0199	Mean of log Data	-4.305
Median	0.0113	SD of log Data	0.89
SD	0.0194		
Coefficient of Variation	0.974		
Skewness	1.757		
	Relevant UCL		
Normal Distribution Test	0.750	Lognormal Distribution Test	A 05
Shapiro Wilk Test Statistic	0.756	Shapiro Wilk Test Statistic	0.95
Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.947	Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	0.94 I
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0246	95% H-UCL	0.02

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.032
95% Adjusted-CLT UCL	0.0253	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.0247	99% Chebyshev (MVUE) UCL	0.04
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.356	Data appear Lognormal at 5% Significance Leve	I
Theta Star	0.0147	Michille Method (Method (menter) programment as at Michille (menter) menter (menter) programment (menter) menter (menter) ment	ordere francours ( Nedocks, top entry
nu star	130.2		5(n-m#)+1-(1-41-41-41-41-41-41-41-41-41-41-41-41-41
Approximate Chi Square Value (.05)	104.8	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.02
Adjusted Chi Square Value	104.1	95% Jackknife UCL	0.02
		95% Standard Bootstrap UCL	0.02
Anderson-Darling Test Statistic	1.641	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.769	95% Hall's Bootstrap UCL	0.02
Kolmogorov-Smirnov Test Statistic	0.194	95% Percentile Bootstrap UCL	0.02
Kolmogorov-Smirnov 5% Critical Value	0.13	95% BCA Bootstrap UCL	0.02
Data not Gamma Distributed at 5% Significance Lo		95% Chebyshev(Mean, Sd) UCL	0.0
		97.5% Chebyshev(Mean, Sd) UCL	0.03
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0247		
95% Adjusted Gamma UCL	0.0249		
			restation of the determinan
Potential UCL to Use		Use 95% H-UCL	0.02
lt or 1/2 SDL (molybdenum)			
	General Sta		20
It or 1/2 SDL (molybdenum)  Number of Valid Samples	General Sta	tistics  Number of Unique Samples	39
			39
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	48	Number of Unique Samples  Log-transformed Statistics	-3.29
Number of Valid Samples  Raw Statistics  Minimum	0.037	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-3.29 1.1
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.037	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-3.29 <sup>-</sup> 1.17 -1.17
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.037 3.24 0.581	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-3.29 <sup>-</sup> 1.17 -1.17
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.037 3.24 0.581 0.38	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-3.29 1.1 -1.17
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.037 3.24 0.581 0.38 0.677	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-3.29 1.1 -1.17
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.037 3.24 0.581 0.38 0.677 1.166	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-3.29 <sup>-</sup> 1.17 -1.17
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.037 3.24 0.581 0.38 0.677 1.166 2.313	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-3.29 <sup>-</sup> 1.17 -1.17
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.037 3.24 0.581 0.38 0.677 1.166 2.313	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test	-3.29 1.17 -1.17! 1.28
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	0.037 3.24 0.581 0.38 0.677 1.166 2.313	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-3.29 1.17 -1.179 1.29
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.037 3.24 0.581 0.38 0.677 1.166 2.313	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test	39 -3.297 1.17 -1.175 1.25
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.037 3.24 0.581 0.38 0.677 1.166 2.313	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-3.29 1.17 -1.179 1.29
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution	0.037 3.24 0.581 0.38 0.677 1.166 2.313 Relevant UCL \$	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution	-3.297 1.17 -1.178 1.25
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.037 3.24 0.581 0.38 0.677 1.166 2.313	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	-3.297 1.17 -1.178 1.28 0.90 0.94
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.037 3.24 0.581 0.38 0.677 1.166 2.313  Relevant UCL \$ 0.726 0.947	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-3.29 1.17 -1.17! 1.28 0.90 0.90
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.037 3.24 0.581 0.38 0.677 1.166 2.313 Relevant UCL S 0.726 0.947	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-3.297 1.17 -1.178 1.25 0.90 0.94 1.09 1.31
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	0.037 3.24 0.581 0.38 0.677 1.166 2.313  Relevant UCL \$ 0.726 0.947	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-3.29° 1.1' -1.17' 1.29 0.90 0.90 1.00

k star (bias corrected)	0.88	Data Follow Appr. Gamma Distribution at 5% Significant	e Leve
Theta Star	0.66		***************************************
nu star	84.46		
Approximate Chi Square Value (.05)	64.28	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.74
Adjusted Chi Square Value	63.73	95% Jackknife UCL	0.74
		95% Standard Bootstrap UCL	0.7
Anderson-Darling Test Statistic	0.995	95% Bootstrap-t UCL	0.79
Anderson-Darling 5% Critical Value	0.783	95% Hall's Bootstrap UCL	0.7
Kolmogorov-Smirnov Test Statistic	0.126	95% Percentile Bootstrap UCL	0.7
Kolmogorov-Smirnov 5% Critical Value	0.132	95% BCA Bootstrap UCL	0.7
Data follow Appr. Gamma Distribution at 5% Significar	ice Level	95% Chebyshev(Mean, Sd) UCL	1.0
		97.5% Chebyshev(Mean, Sd) UCL	1.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1.5
95% Approximate Gamma UCL	0.763		****************
95% Adjusted Gamma UCL	0.769		
Potential UCL to Use	Annual Control of the	Use 95% Approximate Gamma UCL	0.7
sult or 1/2 SDL (nickel)			
	General S		
Number of Valid Samples	50	Number of Unique Samples	43
Raw Statistics		Log-transformed Statistics	
Minimum	10.9	Minimum of Log Data	2.3
Maximum	27.7	Maximum of Log Data	3.3
Mean	17.29	Mean of log Data	2.8
Median	17.3	SD of log Data	0.1
SD	3.391		
Coefficient of Variation	0.196		
Skewness	0.421		
Normal Distribution Test	Relevant UC	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.974	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.9
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***********
95% Student's-t UCL	18.09	95% H-UCL	18.1
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	19.4
95% Adjusted-CLT UCL	18.11	97.5% Chebyshev (MVUE) UCL	20.3
95% Modified-t UCL	18.09	99% Chebyshev (MVUE) UCL	22.1
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	25.02	Data appear Normal at 5% Significance Level	
Theta Star	0.691		
nu star	2502		
Approximate Chi Square Value (.05)	2387	Nonparametric Statistics	
Adjusted Level of Significance	0.0452	95% CLT UCL	18.0

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Adjusted Chi Saussa Value	2383	95% Jackknife UCL	18.09
Adjusted Chi Square Value	2383		18.07
A. J D. Jing T. A Olafish	0.000	95% Standard Bootstrap UCL	18.07
Anderson-Darling Test Statistic		95% Bootstrap-t UCL 95% Hall's Bootstrap UCL	18.12
Anderson-Darling 5% Critical Value	0.748	,	
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL	18.04
Kolmogorov-Smirnov 5% Critical Value	0.125	95% BCA Bootstrap UCL	18.05
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	19.38
		97.5% Chebyshev(Mean, Sd) UCL	20.28
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	22.06
95% Approximate Gamma UCL			
95% Adjusted Gamma UCL	18.15		
Potential UCL to Use		Use 95% Student's-t UCL	18.09
Result or 1/2 SDL (phenanthrene)	General S	Statistics	
Number of Valid Samples	48	Number of Unique Samples	41
Raw Statistics	n en	Log-transformed Statistics	and the same of th
Minimum	0.0030	Minimum of Log Data	-5.783
Maximum	1.3	Maximum of Log Data	0.262
Mean	0.0761	Mean of log Data	-4.26
Median	0.0070	SD of log Data	1.508
SD	0.248		
Coefficient of Variation	3.26		
Skewness	4.606		***************************************
	Relevant UC	CL Statistics	
Normal Distribution Test	**************************************	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.309	Shapiro Wilk Test Statistic	0.84
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.136	95% H-UCL	0.083
95% UCLs (Adjusted for Skewness)	· H· · Merceller British i	95% Chebyshev (MVUE) UCL	0.094
95% Adjusted-CLT UCL	0.16	97.5% Chebyshev (MVUE) UCL	0.118
95% Modified-t UCL	0.14	99% Chebyshev (MVUE) UCL	0.162
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.381	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.2		• 1
nu star	36.62		
Approximate Chi Square Value (.05)	23.77	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.135
Adjusted Chi Square Value	23.45	95% Jackknife UCL	0.136
		95% Standard Bootstrap UCL	0.136
Anderson-Darling Test Statistic	5.99	95% Bootstrap-t UCL	0.472
Anderson-Darling 5% Critical Value	0.84	95% Hall's Bootstrap UCL	0.43
Kolmogorov-Smirnov Test Statistic	0.276	95% Percentile Bootstrap UCL	0.139

			andonench (h.)
Kolmogorov-Smirnov 5% Critical Value	0.137	95% BCA Bootstrap UCL	0.
Data not Gamma Distributed at 5% Significance L	l I	95% Chebyshev(Mean, Sd) UCL	0.2
	4	97.5% Chebyshev(Mean, Sd) UCL	0.
Assuming Gamma Distribution	and the same of th	99% Chebyshev(Mean, Sd) UCL	0.
95% Approximate Gamma UCL	0.117		
95% Adjusted Gamma UCL	0.119		Mary and and the second
			***************************************
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.4
sult or 1/2 SDL (pyrene)			
	General St		
Number of Valid Samples	48	Number of Unique Samples	38
Raw Statistics		Log-transformed Statistics	
Minimum	0.0040	Minimum of Log Data	-5.5
Maximum	1.64	Maximum of Log Data	0.
Mean	0.154	Mean of log Data	-3.5
Median	0.0113	SD of log Data	1.
SD	0.355		
Coefficient of Variation	2.305		
Skewness	3.1		
	Relevant UCL	Statistics	ny managhana
Normal Distribution Test		Lognormal Distribution Test	*******************
Shapiro Wilk Test Statistic	0.48	Shapiro Wilk Test Statistic	0.
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.24	95% H-UCL	0.
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.
95% Adjusted-CLT UCL 95% Modified-t UCL	0.263 0.244	97.5% Chebyshev (MVUE) UCL 99% Chebyshev (MVUE) UCL	0. 0.
33 % Modilled-L OCL	0.244	99% Chebyshev (WVOE) OCL	0.
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.377	Data do not follow a Discernable Distribution (0.05	5)
Theta Star	0.408		
nu star	36.18		
Approximate Chi Square Value (.05)	23.41	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	0.
Adjusted Chi Square Value	23.1	95% Jackknife UCL	0.
	dint the section of a constitution of the section o	95% Standard Bootstrap UCL	0.
Anderson-Darling Test Statistic	4.849	95% Bootstrap-t UCL	0.
Anderson-Darling 5% Critical Value	0.841	95% Hall's Bootstrap UCL	0.
Kolmogorov-Smirnov Test Statistic	0.256	95% Percentile Bootstrap UCL	0.
Kolmogorov-Smirnov 5% Critical Value	0.137	95% BCA Bootstrap UCL	0.
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	0.
		97.5% Chebyshev(Mean, Sd) UCL	0.
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.
95% Approximate Gamma UCL	0.238	a supplied to the supplied to	

95% Adjusted Gamma UCL	0.241		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.6
			0.0
ult or 1/2 SDL (strontium)			
	General Sta	atistics	
Number of Valid Samples	48	Number of Unique Samples	47
Raw Statistics		Log-transformed Statistics	·
Minimum	18.8	Minimum of Log Data	2.9
Maximum	330	Maximum of Log Data	5.7
Mean	67	Mean of log Data	4.0
Median	54	SD of log Data	0.5
SD	52.81		
Coefficient of Variation	0.788		
Skewness	3.229		unum mannana.
Normal Distribution Test	Relevant UCL	Statistics  Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.671	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.9
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	79.79	95% H-UCL	76.3
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	89.2
95% Adjusted-CLT UCL	83.33	97.5% Chebyshev (MVUE) UCL	99.7
95% Modified-t UCL	80.38	99% Chebyshev (MVUE) UCL	120.3
Gamma Distribution Test		Data Distribution	······································
k star (bias corrected)	2.764	Data appear Lognormal at 5% Significance Leve	
Theta Star	24.24		
, nu star	265.3		
Approximate Chi Square Value (.05)	228.6	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	79.5
Adjusted Chi Square Value	227.6	95% Jackknife UCL	79.7
		95% Standard Bootstrap UCL	79.5
Anderson-Darling Test Statistic	1.725	95% Bootstrap-t UCL	87.3
Anderson-Darling 5% Critical Value	0.757	95% Hajl's Bootstrap UCL	98.0
Kolmogorov-Smirnov Test Statistic	0.177	95% Percentile Bootstrap UCL	80.2
Kolmogorov-Smirnov 5% Critical Value	0.129	95% BCA Bootstrap UCL	84.9
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	100.2
		97.5% Chebyshev(Mean, Sd) UCL	114.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	142.8
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	77.76 78.12		
30 /s Asjusted Gamind OCL	70.12		

Maximum   Mean   Maximum   Mean   Maximum of tog Data   1.5		General	Statistics	
Minimum   0.2   Minimum of Log Data   1.80	Number of Valid Samples	48	Number of Unique Samples	31
Minimum   Maximum   4.61   Maximum of Log Data   1.80	Raw Statistics		Log-transformed Statistics	
Maximum   Maxi		0.2		-1.609
Mean   0.638			1	1.52
Median   0.3   SD of log Data   0.7				-0.895
Coefficient of Variation				0.72
Relevant UCL Statistics   Relevant UCL Statistics   Normal Distribution Test   Lognormal Distribution Test   Shapiro Wilk Test Statistic   0.408   Shapiro Wilk Test Statistic   0.65   Shapiro Wilk Critical Value   0.947   Shapiro Wilk Critical Value   0.55   Data not Normal at 5% Significance Level   Data not Lognormal at 5% Significance Level   Data not Lognormal at 5% Significance Level   Data not Lognormal Distribution   Assuming Lognormal Distribution   95% Student's-t UCL   0.877   95% H-UCL   0.67   95% H-UCL   0.67   95% K-Debyshev (MVUE) UCL   0.70   95% Modified-t UCL   0.943   97.5% Chebyshev (MVUE) UCL   0.70   95% Modified-t UCL   0.888   99% Chebyshev (MVUE) UCL   0.70   95% Modified-t UCL   0.888   99% Chebyshev (MVUE) UCL   0.70	SD	0.991		
Normal Distribution Test	Coefficient of Variation	1.554		
Normal Distribution Test	Skewness	3.165		
Normal Distribution Test	F	Relevant U	CI Statistics	
Data not Normal at 5% Significance Level				
Data not Normal at 5% Significance Level	Shapiro Wilk Test Statistic	0.408	Shapiro Wilk Test Statistic	0.62
Assuming Normal Distribution 95% Student's-t UCL 0.877 95% H-UCL 0.6 95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 0.7 95% Adjusted-CLT UCL 0.943 97.5% Chebyshev (MVUE) UCL 0.9 95% Modified-t UCL 0.888 99% Chebyshev (MVUE) UCL 1.1  Gamma Distribution Test Data Distribution  k star (bias corrected) 1.199 Data do not follow a Discernable Distribution (0.05)  Theta Star 0.532 Theta Star 0.532 Theta Star 115.1  Approximate Chi Square Value (0.05) 91.31 Nonparametric Statistics  Adjusted Level of Significance 0.045 95% CLT UCL 0.8 Adjusted Level of Significance 0.045 95% Standard Bootstrap UCL 0.8 Adjusted Chi Square Value 0.773 95% Blail's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev (Mean, Sd) UCL 1.2  Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
95% Student's-t UCL	Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
95% Student's-t UCL	Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Adjusted-CLT UCL 95% Modified-t UCL 0.888 99% Chebyshev (MVUE) UCL 1.1  Gamma Distribution Test Data Distribution   k star (bias corrected) 1.199 Data do not follow a Discernable Distribution (0.05)  Theta Star 0.532 nu star 115.1   Approximate Chi Square Value (.05) 91.31 Nonparametric Statistics   Adjusted Level of Significance 0.045 95% Standard Bootstrap UCL 0.8   Adjusted Chi Square Value 99.65 95% Standard Bootstrap UCL 0.8   Anderson-Darling Test Statistic 9.6 95% Bootstrap-t UCL 1.0   Anderson-Darling Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8   Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8   Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9   Data not Gamma Distributed at 5% Significance Level 95% Chebyshev (Mean, Sd) UCL 1.2   97.5% Chebyshev (Mean, Sd) UCL 1.2   95% Adjusted Gamma UCL 0.809   Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	95% Student's-t UCL	0.877		0.66
Section   Sect	95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.79
Gamma Distribution Test  k star (bias corrected)  Theta Star  0.532  nu star  115.1  Approximate Chi Square Value (.05)  Adjusted Level of Significance  Adjusted Chi Square Value  90.65  95% Standard Bootstrap UCL  Anderson-Darling Test Statistic  Anderson-Darling 5% Critical Value  Nonparametric Statistics  95% Bootstrap UCL  Anderson-Darling 5% Critical Value  Nonparametric Statistics  95% Standard Bootstrap UCL  Anderson-Darling 5% Critical Value  Nonparametric Statistics  95% Standard Bootstrap UCL  Nonparametric Statistics  95% Bootstrap UCL  Nonparametric Statistics  95% Bootstrap UCL  Nonparametric Statistics  95% Percentile Bootstrap UCL  Nonparametric Statistics  95% Bootstrap UCL  Nonparametric Statistics  95% Percentile Bootstrap UCL  Nonparametric Statistics  95%	95% Adjusted-CLT UCL	0.943	97.5% Chebyshev (MVUE) UCL	0.91
Nonparametric Statistics   Nonparametric Statistics	95% Modified-t UCL	0.888	99% Chebyshev (MVUE) UCL	1.13
Theta Star 0.532 nu star 115.1  Approximate Chi Square Value (.05) 91.31  Adjusted Level of Significance 0.045  Adjusted Chi Square Value 90.65  Anderson-Darling Test Statistic 9.6  Anderson-Darling 5% Critical Value 0.773  Anderson-Darling 5% Critical Value 0.773  Anderson-Darling 5% Critical Value 0.773  Anderson-Darling 5% Critical Value 0.731  Anderson-Darling 5% Critical Value 0.731  Anderson-Darling 5% Critical Value 0.131  Anderson-Darling 5% Critical Value 0.131  Assuming Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0  95% Approximate Gamma UCL 0.803  95% Adjusted Gamma UCL 0.809  Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Gamma Distribution Test		Data Distribution	obcopological beautiful and an also
nu star 115.1  Approximate Chi Square Value (.05) 91.31  Adjusted Level of Significance 0.045  Adjusted Chi Square Value 90.65  Adjusted Chi Square Value 90.65  Adjusted Chi Square Value 90.65  95% Standard Bootstrap UCL 0.8  Anderson-Darling Test Statistic 9.6  Anderson-Darling 5% Critical Value 0.773  95% Hall's Bootstrap UCL 0.8  Kolmogorov-Smirnov Test Statistic 0.344  95% Percentile Bootstrap UCL 0.8  Kolmogorov-Smirnov 5% Critical Value 0.131  95% BCA Bootstrap UCL 0.9  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2  97.5% Chebyshev(Mean, Sd) UCL 1.5  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0  95% Adjusted Gamma UCL 0.803  95% Adjusted Gamma UCL 0.809  Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	k star (bias corrected)	1.199	Data do not follow a Discernable Distribution (0.05	)
Approximate Chi Square Value (.05) 91.31 Nonparametric Statistics  Adjusted Level of Significance 0.045 95% CLT UCL 0.8  Adjusted Chi Square Value 90.65 95% Standard Bootstrap UCL 0.8  Anderson-Darling Test Statistic 9.6 95% Bootstrap-t UCL 1.0  Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8  Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8  Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0  95% Approximate Gamma UCL 0.803  95% Adjusted Gamma UCL 0.809  Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Theta Star	0.532		
Adjusted Level of Significance 0.045 95% CLT UCL 0.8 Adjusted Chi Square Value 90.65 95% Jackknife UCL 0.8 Adjusted Chi Square Value 90.65 95% Standard Bootstrap UCL 0.8 Anderson-Darling Test Statistic 9.6 95% Bootstrap+t UCL 1.0 Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	nu star	115.1		
Adjusted Chi Square Value 90.65 95% Jackknife UCL 0.8  Anderson-Darling Test Statistic 9.6 95% Standard Bootstrap UCL 1.0  Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8  Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8  Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0  95% Approximate Gamma UCL 0.803  95% Adjusted Gamma UCL 0.809  Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Approximate Chi Square Value (.05)	91.31	Nonparametric Statistics	
Anderson-Darling Test Statistic 9.6 95% Bootstrap UCL 1.0 Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809  Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Adjusted Level of Significance	0.045	95% CLT UCL	0.87
Anderson-Darling Test Statistic 9.6 95% Bootstrap-t UCL 1.0 Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 97.5% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Adjusted Chi Square Value	90,65	95% Jackknife UCL	0.87
Anderson-Darling 5% Critical Value 0.773 95% Hall's Bootstrap UCL 0.8 Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 97.5% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2		marine and an barrely control	95% Standard Bootstrap UCL	0.87
Kolmogorov-Smirnov Test Statistic 0.344 95% Percentile Bootstrap UCL 0.8 Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9 Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 97.5% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Anderson-Darling Test Statistic	9.6	95% Bootstrap-t UCL	1.09
Kolmogorov-Smirnov 5% Critical Value 0.131 95% BCA Bootstrap UCL 0.9  Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2  97.5% Chebyshev(Mean, Sd) UCL 1.5  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0  95% Approximate Gamma UCL 0.803  95% Adjusted Gamma UCL 0.809  Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Anderson-Darling 5% Critical Value	0.773	95% Hall's Bootstrap UCL	0.82
Data not Gamma Distributed at 5% Significance Level 95% Chebyshev(Mean, Sd) UCL 1.2 97.5% Chebyshev(Mean, Sd) UCL 1.5 Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Kolmogorov-Smirnov Test Statistic	0.344	95% Percentile Bootstrap UCL	0.87
97.5% Chebyshev(Mean, Sd) UCL 1.5  Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0  95% Approximate Gamma UCL 0.803  95% Adjusted Gamma UCL 0.809  Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Kolmogorov-Smirnov 5% Critical Value	0.131	95% BCA Bootstrap UCL	0.95
Assuming Gamma Distribution 99% Chebyshev(Mean, Sd) UCL 2.0 95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809  Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	1.26
95% Approximate Gamma UCL 0.803 95% Adjusted Gamma UCL 0.809 Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2			97.5% Chebyshev(Mean, Sd) UCL	1.53
95% Adjusted Gamma UCL 0.809  Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2	_		99% Chebyshev(Mean, Sd) UCL	2.06
Potential UCL to Use Use 95% Chebyshev (Mean, Sd) UCL 1.2		0.803		
	95% Adjusted Gamma UCL	0.809		
	Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	1.26
sult or 1/2 SDL (titanium)				
	ult or 1/2 SDL (titanium)	General	Obs. M. o. A.	

Raw Statistics		Log-transformed Statistics	<u>o republică din în î</u>
Minimum	8.15	Minimum of Log Data	2.09
Maximum	68.7	Maximum of Log Data	4.23
Mean	29.14	Mean of log Data	3.26
Median	28	SD of log Data	0.46
SD	13.88		
Coefficient of Variation	0.476		
Skewness	1.065		
F	Relevant UC	CL Statistics	** ***********************************
Normal Distribution Test		Lognormal Distribution Test	California (California California
Shapiro Wilk Test Statistic	0.909	Shapiro Wilk Test Statistic	0.97
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution	<u></u>	Assuming Lognormal Distribution	· · · · · · · · · · · · · · · · · · ·
95% Student's-t UCL	32.5	95% H-UCL	33.16
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	38.06
95% Adjusted-CLT UCL	32.77	97.5% Chebyshev (MVUE) UCL	41.92
95% Modified-t UCL	32.55	99% Chebyshev (MVUE) UCL	49.49
Gamma Distribution Test		Data Distribution	alah meradi sadi samananya sa
k star (bias corrected)	4.618	Data appear Gamma Distributed at 5% Significance L	evel
Theta Star	6.31		
nu star	443.3		
Approximate Chi Square Value (.05)	395.5	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL	32.44
Adjusted Chi Square Value	394.1	95% Jackknife UCL	32.5
		95% Standard Bootstrap UCL	32.46
Anderson-Darling Test Statistic	0.49	95% Bootstrap-t UCL	32.95
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	32.98
Kolmogorov-Smirnov Test Statistic	0.109	95% Percentile Bootstrap UCL	32.54
Kolmogorov-Smirnov 5% Critical Value	0.128	95% BCA Bootstrap UCL	32.94
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	37.87
		97.5% Chebyshev(Mean, Sd) UCL	41.65
Assuming Gamma Distribution	-	99% Chebyshev(Mean, Sd) UCL	49.08
95% Approximate Gamma UCL	32.66		
95% Adjusted Gamma UCL	32.78		
Potential UCL to Use		Use 95% Approximate Gamma UCL	32.66
suming Gamma Distribution  95% Approximate Gamma UCL  95% Adjusted Gamma UCL	32.66	97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	37.87 41.65 49.08 32.66
	General S	Statistics	141-141-141-141-141-141-141-141-141-141
Number of Valid Samples	48	Number of Unique Samples	44
Raw Statistics		Log-transformed Statistics	Marian Indonésia da Para da Pa
Minimum	2.9700E-4	Minimum of Log Data	-8.122
Maximum	0.0064	Maximum of Log Data	-5.051
1			
Mean	6.5492E-4	Mean of log Data	-7.638

জন্মৰ চন্দ্ৰ ক্ৰিক্ত মান্ত্ৰক্ৰিক (১৯১৮) কৰা কৰা কৰা কৰা কৰা কৰা কৰা কৰা কৰা কৰা	Francisco es está a California de 11		
SD	9.3955E-4		
Coefficient of Variation	1.435		
Skewness	5.23		
	<u> </u>		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.385	Shapiro Wilk Test Statistic	0.6
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.94
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	· · · · · · · · · · · · · · · · · · ·
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	8 8247F-4	95% H-UCL	6.9234
95% UCLs (Adjusted for Skewness)	0.021721	95% Chebyshev (MVUE) UCL	
95% Adjusted-CLT UCL	9.8737E-4	97.5% Chebyshev (MVUE) UCL	
95% Modified-t UCL	1	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.68	Data do not follow a Discernable Distribution (0.0	)5)
Theta Star			
nu star	161.2		
Approximate Chi Square Value (.05)	132.9	Nonparametric Statistics	
Adjusted Level of Significance	0.045	95% CLT UCL 95% Jackknife UCL	
Adjusted Chi Square Value	132.1	<b>1</b>	
Anderson-Darling Test Statistic	7.505	95% Standard Bootstrap UCL 95% Bootstrap-t UCL	0.0
Anderson-Darling 1est Statistic Anderson-Darling 5% Critical Value	0.764	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.764	95% Percentile Bootstrap UCL	
Kolmogorov-Smirnov 5% Critical Value	0.27	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance L	1	95% Chebyshev(Mean, Sd) UCL	0.0
Dua not dunina Distributed at 0% Organicanos E	3701	97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	7 9468F-4	- The state of the	
95% Adjusted Gamma UCL			
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.0
		o Phair an agus Lucatus an agus Lucatus agus Agus Agus Agus Agus Agus Agus Agus A	
ult or 1/2 SDL (vanadium)			and the real section of the distances of
	General S	statistics	
Number of Valid Samples	48	Number of Unique Samples	39
Raw Statistics		Log-transformed Statistics	Left Lagran de l'Agranda de l'Agranda de l'Agranda de l'Agranda de l'Agranda de l'Agranda de l'Agranda de l'Ag
Minimum	9.02	Minimum of Log Data	2.1
Maximum	32	Maximum of Log Data	3.4
Mean	21.65	Mean of log Data	3.0
Median	21.75	SD of log Data	0.2
SD	4.554		
Coefficient of Variation	0.21		
Skewness	-0.279		

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.985	Shapiro Wilk Test Statistic	0.933
Shapiro Wilk Critical Value	0.947	Shapiro Wilk Critical Value	0.947
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	22.75	95% H-UCL	23.03
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	24.91
95% Adjusted-CLT UCL	22.7	97.5% Chebyshev (MVUE) UCL	26.31
95% Modified-t UCL	22.74	99% Chebyshev (MVUE) UCL	29.05
Gamma Distribution Test		Data Distribution	***************************************
k star (bias corrected)	19.24	Data appear Normal at 5% Significance Level	***************************************
Theta Star	1.125		
nu star	1847		\
Approximate Chi Square Value (.05)	1748	Nonparametric Statistics	· · · · · · · · · · · · · · · · · · ·
Adjusted Level of Significance	0.045	95% CLT UCL	22.73
Adjusted Chi Square Value	1745	95% Jackknife UCL	22.75
		95% Standard Bootstrap UCL	22.71
Anderson-Darling Test Statistic	0.627	95% Bootstrap-t UCL	22.7
Anderson-Darling 5% Critical Value	0.748	95% Hall's Bootstrap UCL	22.7
Kolmogorov-Smirnov Test Statistic	0.102	95% Percentile Bootstrap UCL	22.73
Kolmogorov-Smirnov 5% Critical Value	0.128	95% BCA Bootstrap UCL	22.76
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	24.51
		97.5% Chebyshev(Mean, Sd) UCL	25.75
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	28.19
95% Approximate Gamma UCL	22.87		**************************************
95% Adjusted Gamma UCL	22.91		
Potential UCL to Use		Use 95% Student's-t UCL	22.75
sult or 1/2 SDL (zinc)	annus musuupanpanponas summenne		olden inn orden den de la constitución de la consti
	General Stati	stics	***************************************
Night of the Control	53		
Number of Valid Samples	33	Number of Unique Samples	53
			33
Raw Statistics		Log-transformed Statistics	
Raw Statistics Minimum	31.5	Log-transformed Statistics  Minimum of Log Data	3.45
Raw Statistics Minimum Maximum	31.5 903	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	3.45 6.806
Raw Statistics Minimum Maximum Mean	31.5 903 139.1	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	3.45 6.806 4.558
Raw Statistics  Minimum  Maximum  Mean  Median	31.5 903 139.1 84.3	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	3.45 6.806 4.558
Raw Statistics  Minimum  Maximum  Mean  Median  SD	31.5 903 139.1 84.3 160.9	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	3.45 6.806 4.558
Raw Statistics  Minimum  Maximum  Mean  Median	31.5 903 139.1 84.3	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	3.45 6.806 4.558
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	31.5 903 139.1 84.3 160.9 1.157 2.989	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	3.45 6.806 4.558
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	31.5 903 139.1 84.3 160.9	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	3.45 6.806 4.558
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	31.5 903 139.1 84.3 160.9 1.157 2.989	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	176.1	95% H-UCL	16
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	19
95% Adjusted-CLT UCL	185.2	97.5% Chebyshev (MVUE) UCL	22
95% Modified-t UCL	177.6	99% Chebyshev (MVUE) UCL	28
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.4	Data do not follow a Discernable Distribution (0.0)	5)
Theta Star	99.32		
nu star	148.4		
Approximate Chi Square Value (.05)	121.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0455	95% CLT UCL	17
Adjusted Chi Square Value	120.6	95% Jackknife UCL	17
		95% Standard Bootstrap UCL	17
Anderson-Darling Test Statistic	2.607	95% Bootstrap-t UCL	19
Anderson-Darling 5% Critical Value	0.768	95% Hall's Bootstrap UCL	19
Kolmogorov-Smirnov Test Statistic	0.185	95% Percentile Bootstrap UCL	17
Kolmogorov-Smirnov 5% Critical Value	0.124	95% BCA Bootstrap UCL	18
Data not Gamma Distributed at 5% Significance Le	evel	95% Chebyshev(Mean, Sd) UCL	23
		97.5% Chebyshev(Mean, Sd) UCL	27
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	35
95% Approximate Gamma UCL	170.2		
95% Adjusted Gamma UCL	171.2		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	23

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APPENDIX A-9

POND SEDIMENT

		·	

User Selected Options	General UCL Statistics	tor Full Data	Sets				
From File		\eco\draft for F	PRP review\Appendices\Data\Pond sediment data.wst				
Full Precision	OFF						
Confidence Coefficient	95%	5%					
Number of Bootstrap Operations	2000						
lesult or 1/2 SDL (2,4,6-trichloro	phenol)			4 ( 122			
		General St	atistics				
N	umber of Valid Samples	8	Number of Unique Samples	7			
Raw S	tatistics		Log-transformed Statistics	***************************************			
ani pangangan ng pangangangan ng pangangangan ng pangangan pangangan ng pangangan ng pangangan ng pangangan ng	Minimum	0.0125	Minimum of Log Data	-4.382			
Entering the Control of the Control	Maximum	0.0429	Maximum of Log Data	-3.149			
	Mean	0.0175	Mean of log Data	-4.145			
	Median	0.0135	SD of log Data	0.414			
annon the contract of the state	SD	0.0104					
nna uurin Maittii Maatti oo oo oo oo oo oo oo oo oo oo oo oo oo	Coefficient of Variation	0.595		h dan dan dan dan dan dan dan dan dan dan			
	Skewness	2.728					
	F	Relevant UCL	Statistics	leaktion of Hillians he can be trans			
Normal Dis	ribution Test		Lognormal Distribution Test	***************************************			
Sh	apiro Wilk Test Statistic	0.534	Shapiro Wilk Test Statistic	0.62			
Sh	apiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818			
Data not Normal at 5	% Significance Level	To provide del del mario	Data not Lognormal at 5% Significance Level				
Assuming Nor	mal Distribution		Assuming Lognormal Distribution	rae i decapra de adria da des dapados de ligo es			
—————————————————————————————————————	95% Student's-t UCL	0.0244	95% H-UCL	0.024			
95% UCLs (Adju	sted for Skewness)		95% Chebyshev (MVUE) UCL	0.028			
	95% Adjusted-CLT UCL	0.0273	97.5% Chebyshev (MVUE) UCL	0.032			
	95% Modified-t UCL	0.025	99% Chebyshev (MVUE) UCL	0.042			
Gamma Dis	tribution Test		Data Distribution	D. I. W. (44)			
	k star (bias corrected)	3.43	Data do not follow a Discernable Distribution (0.05	)			
	Theta Star	0.0050					
ne pentrikkan aktivation a dite stocklighteste sikali iskal landa (CDC) kilosika kilosop as an empere	nu star	54.87					
Approximate	Chi Square Value (.05)	38.85	Nonparametric Statistics	************************			
Adjust	ed Level of Significance	0.0195	95% CLT UCL	0.023			
Adj	usted Chi Square Value	35.47	95% Jackknife UCL	0.024			
			95% Standard Bootstrap UCL	0.023			
Anderse	on-Darling Test Statistic	1.566	95% Bootstrap-t UCL	0.064			
	arling 5% Critical Value	0.719	95% Hall's Bootstrap UCL	0.051			
***************************************	v-Smirnov Test Statistic	0.368	95% Percentile Bootstrap UCL	0.024			
***************************************	nirnov 5% Critical Value	0.295	95% BCA Bootstrap UCL	0.025			
Data not Gamma Distribute	ed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.033			
			97.5% Chebyshev(Mean, Sd) UCL	0.040			
	ma Distribution		99% Chebyshev(Mean, Sd) UCL	0.054			
	proximate Gamma UCL	0.0246					
95%	Adjusted Gamma UCL	0.027					
		3					

Potential UCL to Use	anaphi (Line	Use 95% Student's-t UCL	0.02
		or 95% Modified-t UCL	0.02
ılt or 1/2 SDL (4,4'-ddd)			
110 172 301 (4,4-000)			
Number of Valid Samples	General Stat	tistics  Number of Unique Samples	7
Number of Valid Samples	8	Number of Unique Samples	
Raw Statistics		Log-transformed Statistics	
Minimum	2 2750E-4	Minimum of Log Data	-8.388
Maximum	0.013	Maximum of Log Data	-4.34
Mean	0.0069	Mean of log Data	-5.828
Median	0.000	SD of log Data	1.83
SD	0.0055	OD OF log Parti	1.00
Coefficient of Variation	0.794		
Skewness	-0.527		ne ura
	Relevant UCL S	Statistics	
Normal Distribution Test	icicvanii OOL C	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.772	Shapiro Wilk Test Statistic	0.72
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0107	95% H-UCL	0.87
95% UCLs (Adjusted for Skewness)	0.0107	95% Chebyshev (MVUE) UCL	0.04
95% Adjusted-CLT UCL	0.0097	97.5% Chebyshev (MVUE) UCL	0.05
95% Adjusted-CE1 OCL	0.0097	99% Chebyshev (MVUE) UCL	0.07
3378 Modified-t OCL	0.0100	33% Chebyshev (MVOL) OCL	0.07
Gamma Distribution Test	***************************************	Data Distribution	
k star (bias corrected)	0.522	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0133		
nu star	8.359		
Approximate Chi Square Value (.05)	2.945	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.01
Adjusted Chi Square Value	2.195	95% Jackknife UCL	0.01
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	1.169	95% Bootstrap-t UCL	0.01
Anderson-Darling 5% Critical Value	0.748	95% Hall's Bootstrap UCL	0.00
Kolmogorov-Smirnov Test Statistic	0.388	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 5% Critical Value	0.305	95% BCA Bootstrap UCL	0.00
Data not Gamma Distributed at 5% Significance Le	vel	95% Chebyshev(Mean, Sd) UCL	0.01
		97.5% Chebyshev(Mean, Sd) UCL	0.01
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.02
95% Approximate Gamma UCL	0.0197		ger. 1921 - 1924   1825   1924   1924   1924   1924   1924   1924   1924   1924   1924   1924   1924   1924
95% Adjusted Gamma UCL	0.0265		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.02
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	General S	tatietice	
Number of Valid Samples	8	Number of Unique Samples	6
Raw Statistics	Name of the last o	Log-transformed Statistics	-4-4-6-4-7-11-11-11-11-11-11-11-11-11-11-11-11-1
Minimum	0.0011	Minimum of Log Data	-6.803
Maximum	0.007	Maximum of Log Data	-4.962
Mean	0.0041	- Mean of log Data	-5.717
Median	0.0055	SD of log Data	0.81
SD	0.0024		
Coefficient of Variation	0.588		
Skewness	-0.488		
· F	Relevant UCI	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.798	Shapiro Wilk Test Statistic	0.754
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	11 Dec , 40 May 1 To Ag Fag 1 Mg 1 Ag 1 Ag 1 Ag 1 Ag 1 Ag 1 Ag 1 A
Annual Distribution		Account and a support of Distribution	
Assuming Normal Distribution 95% Student's-t UCL	0.0058	Assuming Lognormal Distribution 95% H-UCL	0.011
95% UCLs (Adjusted for Skewness)	0.0036	95% Chebyshev (MVUE) UCL	0.009
95% Adjusted-CLT UCL	0.0054	97.5% Chebyshev (MVUE) UCL	0.003
95% Modified-t UCL	0.0057	99% Chebyshev (MVUE) UCL	0.012
			estes i i di strictioni di stato di stato di stato di stato di stato di stato di stato di stato di stato di sta
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.507	Data do not follow a Discernable Distribution (0.05	)
Theta Star	0.0027		
nu star	24.12		
Approximate Chi Square Value (.05)	13.94	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.005
Adjusted Chi Square Value	12.03	95% Jackknife UCL	0.005
		95% Standard Bootstrap UCL	0.005
Anderson-Darling Test Statistic	1.03	95% Bootstrap-t UCL	0.005
Anderson-Darling 5% Critical Value	0.723	95% Hall's Bootstrap UCL	0.005
Kolmogorov-Smirnov Test Statistic	0.37	95% Percentile Bootstrap UCL	0.005
Kolmogorov-Smirnov 5% Critical Value	0.297	95% BCA Bootstrap UCL	0.005
Data not Gamma Distributed at 5% Significance Le	vei	95% Chebyshev (Mean, Sd) UCL	0.007
. Assuming Gamma Distribution		97.5% Chebyshev(Mean, Sd) UCL 99% Chebyshev(Mean, Sd) UCL	0.009 0.012
95% Approximate Gamma UCL	0.0072	33 % Chebyshev (Mean, 30) OCL	0.012
95% Adjusted Gamma UCL	0.0072		
Potential UCL to Use	Acres provinces	Use 95% Chebyshev (Mean, Sd) UCL	0.007
Recommended U	CL exceeds	the maximum observation	
esult or 1/2 SDL (acetone)			
	***************************************		
мания, поставлення в профилация в протовання в протовання в протования в протования в протования в протования в	General S	:	

Log-transformed Statistics  Minimum of Log Data -8.021  Maximum of Log Data -2.528  Mean of log Data -4.85  SD of log Data 2.123  Lognormal Distribution Test  Shapiro Wilk Test Statistic 0.849  Shapiro Wilk Critical Value 0.818  Pear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 15.5 95% Chebyshev (MVUE) UCL 0.17 97.5% Chebyshev (MVUE) UCL 0.226 99% Chebyshev (MVUE) UCL 0.335  Data Distribution  Ippear Normal at 5% Significance Level
Minimum of Log Data -8.021  Maximum of Log Data -2.528  Mean of log Data -4.85  SD of log Data 2.123  Lognormal Distribution Test  Shapiro Wilk Test Statistic 0.848  Shapiro Wilk Critical Value 0.818  Pear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 15.5  95% Chebyshev (MVUE) UCL 0.17  97.5% Chebyshev (MVUE) UCL 0.226  99% Chebyshev (MVUE) UCL 0.338  Data Distribution
Maximum of Log Data -2.528  Mean of log Data -4.85  SD of log Data 2.123  Lognormal Distribution Test Shapiro Wilk Test Statistic 0.848 Shapiro Wilk Critical Value 0.818 Shapiro Wilk Critical Value 0.818 Spear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 15.5 95% Chebyshev (MVUE) UCL 0.17 97.5% Chebyshev (MVUE) UCL 0.226 99% Chebyshev (MVUE) UCL 0.338  Data Distribution
Mean of log Data
Lognormal Distribution Test Shapiro Wilk Test Statistic 0.849 Shapiro Wilk Critical Value 0.818 Shapiro Wilk Critical Value 0.818 Spear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 15.5 95% Chebyshev (MVUE) UCL 0.17 97.5% Chebyshev (MVUE) UCL 0.226 99% Chebyshev (MVUE) UCL 0.338  Data Distribution
Lognormal Distribution Test  Shapiro Wilk Test Statistic 0.848 Shapiro Wilk Critical Value 0.818 Spear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 15.5 95% Chebyshev (MVUE) UCL 0.17 97.5% Chebyshev (MVUE) UCL 0.226 99% Chebyshev (MVUE) UCL 0.338  Data Distribution
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value O.848  Shapiro Wilk Critical Value O.818  Spear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 15.5 95% Chebyshev (MVUE) UCL 0.17 97.5% Chebyshev (MVUE) UCL 0.338  Data Distribution
Shapiro Wilk Test Statistic 0.849 Shapiro Wilk Critical Value 0.818 Spear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 15.5 95% Chebyshev (MVUE) UCL 0.17 97.5% Chebyshev (MVUE) UCL 0.226 99% Chebyshev (MVUE) UCL 0.335  Data Distribution
Shapiro Wilk Test Statistic 0.849 Shapiro Wilk Critical Value 0.818 Spear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 15.5 95% Chebyshev (MVUE) UCL 0.17 97.5% Chebyshev (MVUE) UCL 0.226 99% Chebyshev (MVUE) UCL 0.338  Data Distribution
Shapiro Wilk Test Statistic 0.849 Shapiro Wilk Critical Value 0.818 Spear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 15.5 95% Chebyshev (MVUE) UCL 0.17 97.5% Chebyshev (MVUE) UCL 0.226 99% Chebyshev (MVUE) UCL 0.338  Data Distribution
Shapiro Wilk Critical Value 0.818 spear Lognormal at 5% Significance Level  Assuming Lognormal Distribution 95% H-UCL 15.5 95% Chebyshev (MVUE) UCL 0.17 97.5% Chebyshev (MVUE) UCL 0.226 99% Chebyshev (MVUE) UCL 0.338  Data Distribution
Assuming Lognormal Distribution  95% H-UCL 15.5  95% Chebyshev (MVUE) UCL 0.17  97.5% Chebyshev (MVUE) UCL 0.226  99% Chebyshev (MVUE) UCL 0.338  Data Distribution
Assuming Lognormal Distribution  95% H-UCL 15.5  95% Chebyshev (MVUE) UCL 0.17  97.5% Chebyshev (MVUE) UCL 0.226  99% Chebyshev (MVUE) UCL 0.335  Data Distribution
95% H-UCL 15.5  95% Chebyshev (MVUE) UCL 0.17  97.5% Chebyshev (MVUE) UCL 0.226  99% Chebyshev (MVUE) UCL 0.335  Data Distribution
95% Chebyshev (MVUE) UCL 0.17 97.5% Chebyshev (MVUE) UCL 0.226 99% Chebyshev (MVUE) UCL 0.335  Data Distribution
97.5% Chebyshev (MVUE) UCL 0.226 99% Chebyshev (MVUE) UCL 0.335  Data Distribution
99% Chebyshev (MVUE) UCL 0.335  Data Distribution
Data Distribution
ppear Normal at 5% Significance Level
Nonparametric Statistics
95% CLT UCL 0.039
95% Jackknife UCL 0.041
95% Standard Bootstrap UCL 0.038
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99% Chebyshev(Mean, Sd) UCL 0.117
99% Chebyshev(Mean, Sd) UCL 0.117
99% Chebyshev(Mean, Sd) UCL 0.117

	Francisco Company		jagojas lar <del>a</del>
Median	11550	SD of log Data	0.293
SD	<u></u>	JO UI ING Data	0.200
Coefficient of Variation	}		***************************************
Skewness	0.233		
Orewiess	0.211		
	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.892	Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data appear Normal at 5% Significance Level	<u> </u>	Data appear Lognormal at 5% Significance Leve	el
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	14013	95% H-UCL	14847
95% UCLs (Adjusted for Skewness)	**************************************	95% Chebyshev (MVUE) UCL	17068
95% Adjusted-CLT UCL	13810	97.5% Chebyshev (MVUE) UCL	19369
95% Modified-t UCL	14028	99% Chebyshev (MVUE) UCL	23889
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	8.618	Data appear Normal at 5% Significance Level	
Theta Star	1363	Data appear normal at 0.0 digitalicatics Level	
nu stari	137.9		
Approximate Chi Square Value (.05)	111.8	Nonparametric Statistics	
Adjusted Level of Significance	0.0195		13714
Adjusted Cever of Significance  Adjusted Chi Square Value	105.8	95% Jackknife UCL	14013
Aujusteu Offi Square Value	100.0	95% Standard Bootstrap UCL	13557
Anderson-Darling Test Statistic	0.421	95% Bootstrap-t UCL	14142
Anderson-Darling 5% Critical Value	0.715	95% Hall's Bootstrap UCL	13477
Kolmogorov-Smirnov Test Statistic	0.224	95% Percentile Bootstrap UCL	13574
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	13561
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	16959
		97.5% Chebyshev(Mean, Sd) UCL	19214
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	23644
95% Approximate Gamma UCL	*		
95% Adjusted Gamma UCL	15310		
Detected UOL to U.S.		Lies OFW On Joseph AUGU	14013
Potential UCL to Use		Use 95% Student's-t UCL	14013
	w.w.m.m.m.m.m.m.m.m.m.m.m.m.m.m.m.m.m.m		······································
Result or 1/2 SDL (antimony)			
Number (M-Pd Co. )		Statistics	
Number of Valid Samples	8	Number of Unique Samples	7
Raw Statistics	······	Log-transformed Statistics	
Minimum	0.33	Minimum of Log Data	-1.109
Maximum	1.85	Maximum of Log Data	0.615
Mean	0.795	Mean of log Data	-0.487
Median	0.4	SD of log Data	0.75
SD	0.618	J of 199 Data	0.70
Coefficient of Variation	0.778		
Skewness	0.778		
Skewness	U.00/		

	Relevant U	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.757	Shapiro Wilk Test Statistic	0.76
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	The state of the s	Assuming Lognormal Distribution	- 146-49-1484 1- #446-4744-
95% Student's-t UCL	1.209	95% H-UCL	1.84
95% UCLs (Adjusted for Skewness)	a-1111-1-1-1111-1-1-11111-1-1-1-1-1-1-1	95% Chebyshev (MVUE) UCL	1.7
95% Adjusted-CLT UCL	1.228	97.5% Chebyshev (MVUE) UCL	2.09
95% Modified-t UCL	1.221	99% Chebyshev (MVUE) UCL	2.87
Gamma Distribution Test		Data Distribution	· ····································
k star (bias corrected)	1.392	Data do not follow a Discernable Distribution (0.05	·)
Theta Star	0.571		
nu star	22,27		
Approximate Chi Square Value (.05)	12.54	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	•	1.15
Adjusted Chi Square Value	10.74	95% Jackknife UCL	1.20
Auguste official organic value	10.71	95% Standard Bootstrap UCL	1.12
Anderson-Darling Test Statistic	1.02	95% Bootstrap-t UCL	1.34
Anderson-Darling 5% Critical Value	0.724	95% Hall's Bootstrap UCL	1.02
Kolmogorov-Smirnov Test Statistic	0.724	95% Percentile Bootstrap UCL	1.15
Kolmogorov-Smirnov 7est Statistic	0.33	95% BCA Bootstrap UCL	1.17
-		95% Chebyshev(Mean, Sd) UCL	1.74
Data not Gamma Distributed at 5% Significance Le	evei		
		97.5% Chebyshev(Mean, Sd) UCL	2.16
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2.97
95% Approximate Gamma UCL	1.412		•••••••••••••••
95% Adjusted Gamma UCL	1.648		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	1.74
sult or 1/2 SDL (arsenic)			
Number of Valid Samples	General 8	Statistics  Number of Unique Samples	7
		<u>.</u>	
Raw Statistics	~	Log-transformed Statistics	
Minimum	0.14	Minimum of Log Data	-1.966
Maximum	5.01	Maximum of Log Data	1.61
Mean	1.735	Mean of log Data	-0.633
Median	0.168	SD of log Data	1.74
SD	2.233		
Coefficient of Variation	1.287		
Skewness	0.794		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.706	Shapiro Wilk Test Statistic	0.69
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
95% Student's-t UCL	3.231	95% H-UCL	92.47
95% UCLs (Adjusted for Skewness)	0.20	95% Chebyshev (MVUE) UCL	6.27
95% Adjusted-CLT UCL	3.27	97.5% Chebyshev (MVUE) UCL	8.24
95% Modified-t UCL	3.268	99% Chebyshev (MVUE) UCL	12.12
Gamma Distribution Test	30000 T. T. T. J. T.	Data Distribution	********************************
k star (bias corrected)	0.415	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	4.176		
nu star	6.648		
Approximate Chi Square Value (.05)	1.979	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	3.03
Adjusted Chi Square Value	1.401	95% Jackknife UCL	3.23
		95% Standard Bootstrap UCL	2.91
Anderson-Darling Test Statistic	1.258	95% Bootstrap-t UCL	4.02
Anderson-Darling 5% Critical Value	0.76	95% Hall's Bootstrap UCL	2.69
Kolmogorov-Smirnov Test Statistic	0.385	95% Percentile Bootstrap UCL	2.91
Kolmogorov-Smirnov 5% Critical Value	0.308	95% BCA Bootstrap UCL	3.08
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	5.17
		97.5% Chebyshev(Mean, Sd) UCL	6.66
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	9.59
95% Approximate Gamma UCL	5.827		
95% Adjusted Gamma UCL	8.231		
Potential UCL to Use	1	Use 99% Chebyshev (Mean, Sd) UCL	9.59
		s the maximum observation	
lt or 1/2 SDL (barium)			advanced abbrevia
	General S		
Number of Valid Samples	8	Number of Unique Samples	7
Raw Statistics		Log-transformed Statistics	
naw Statistics		Minimum of Log Data	
Minimum	108	_	4.68
	108 417	Maximum of Log Data	
Minimum		Maximum of Log Data Mean of log Data	6.03
Minimum Maximum	417		6.03 5.14
Minimum Maximum Mean	417 198.6	Mean of log Data	6.03 5.14
Minimum Maximum Mean Median	417 198.6 128.5	Mean of log Data	6.03 5.14
Minimum Maximum Mean Median SD	417 198.6 128.5 119.4	Mean of log Data	6.03 5.14
Minimum Maximum Mean Median SD Coefficient of Variation Skewness	417 198.6 128.5 119.4 0.601	Mean of log Data SD of log Data	6.03 5.14
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test	417 198.6 128.5 119.4 0.601 1.058	Mean of log Data SD of log Data SL Statistics Lognormal Distribution Test	4.68 6.03 5.14 0.55
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  F Normal Distribution Test Shapiro Wilk Test Statistic	417 198.6 128.5 119.4 0.601 1.058	Mean of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	6.03 5.14
Minimum Maximum Mean Median SD Coefficient of Variation Skewness F Normal Distribution Test	417 198.6 128.5 119.4 0.601 1.058	Mean of log Data SD of log Data SL Statistics Lognormal Distribution Test	6.03 5.14 0.55
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  F Normal Distribution Test Shapiro Wilk Test Statistic	417 198.6 128.5 119.4 0.601 1.058 Relevant UC	Mean of log Data SD of log Data SL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic	6.03 5.14 0.55
Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	417 198.6 128.5 119.4 0.601 1.058 Relevant UC	Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	6.03 5.14 0.55
Minimum Maximum Mean Median SD Coefficient of Variation Skewness  F Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Normal at 5% Significance Level	417 198.6 128.5 119.4 0.601 1.058 Relevant UC	Mean of log Data SD of log Data SD of log Data CL Statistics Lognormal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data not Lognormal at 5% Significance Level	6.03 5.14 0.55

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95% Adjusted-CLT UCL	284.9	97.5% Chebyshev (MVUE) UCL	439.5
95% Modified-t UCL	281.2	99% Chebyshev (MVUE) UCL	583.6
Gamma Distribution Test		Data Distribution	
k star (bias corrected) 2.374		Data do not follow a Discernable Distribution (0.0)	E\
Theta Star	83.68	Data do not follow a Discernable Distribution (0.0	
nu star	37.98		
Approximate Chi Square Value (.05)	24.87	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	268
Adjusted Chi Square Value	22.22	95% Jackknife UCL	278.6
		95% Standard Bootstrap UCL	262.5
Anderson-Darling Test Statistic	0.846	95% Bootstrap-t UCL	326.6
Anderson-Darling 5% Critical Value	0.72	95% Hall's Bootstrap UCL	250.9
Kolmogorov-Smirnov Test Statistic	0.3	95% Percentile Bootstrap UCL	263.0
Kolmogorov-Smirnov 5% Critical Value	0.296	95% BCA Bootstrap UCL	275.
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	382.6
		97.5% Chebyshev(Mean, Sd) UCL	462.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	618.5
95% Approximate Gamma UCL	303.4		
95% Adjusted Gamma UCL	339.5		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	382.6
	General Stati		
it or 1/2 SDL (benzo(b)fluoranthene)  Number of Valid Samples	General Stati	istics  Number of Unique Samples	8
	***************************************	Number of Unique Samples	8
Number of Valid Samples	***************************************		
Number of Valid Samples Raw Statistics	8	Number of Unique Samples  Log-transformed Statistics	-5.29
Number of Valid Samples  Raw Statistics  Minimum	0.005	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	-5.29 -2.24
Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.005 0.106	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-5.29 -2.24 -3.56
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.005 0.106 0.0477	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.29 -2.24 -3.56
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.005 0.106 0.0477 0.0338	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.2 -2.2 -3.5
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.005 0.106 0.0477 0.0338 0.0385	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-5.29 -2.24 -3.50
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.005 0.106 0.0477 0.0338 0.0385 0.808	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.29 -2.24 -3.50
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.29 -2.24 -3.50
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-5.29 -2.24 -3.50 1.7
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-5.29 -2.24 -3.50 1.1
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Finance of Variation Test  Shapiro Wilk Test Statistic	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	-5.29 -2.24 -3.50 1.1
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	-5.29 -2.24 -3.50 1.1
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Leve	-5.29 -2.22 -3.50 1.1
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Final Statistic  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434 Relevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data	-5.29 -2.24 -3.50 1.1
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434 Relevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Leve  Assuming Lognormal Distribution  95% H-UCL	-5.29 -2.22 -3.56 1.1.1
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	8  0.005  0.106  0.0477  0.0338  0.0385  0.808  0.434  Relevant UCL S  0.886  0.818	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Leve  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	-5.29 -2.24 -3.50 1.1 0.8 0.8
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)  95% Adjusted-CLT UCL	8  0.005 0.106 0.0477 0.0338 0.0385 0.808 0.434  Relevant UCL S  0.886 0.818  0.0735	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Leve  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL  97.5% Chebyshev (MVUE) UCL	-5.29 -2.22 -3.50 1.1 0.8 0.8 1

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Theta Star	0.0559		70-181-11-7 <u>-</u> 201-181-11-7-1
nu star	13.65		P
Approximate Chi Square Value (.05)	6.332	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.070
Adjusted Chi Square Value	5.127	95% Jackknife UCL	0.073
Augusted offi oquate value	0.127	95% Standard Bootstrap UCL	0.0679
Anderson-Darling Test Statistic	0.442	95% Bootstrap-t UCL	0.075
Anderson-Darling 5% Critical Value	0.732	95% Hall's Bootstrap UCL	0.067
Kolmogorov-Smirnov Test Statistic	0.209	95% Percentile Bootstrap UCL	0.069
Kolmogorov-Smirnov 5% Critical Value	0.3	95% BCA Bootstrap UCL	0.069
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	0.107
1		97.5% Chebyshev(Mean, Sd) UCL	0.133
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.183
95% Approximate Gamma UCL	0.103		
95% Adjusted Gamma UCL	0.127		
Potential UCL to Use		Use 95% Student's-t UCL	0.073
Result or 1/2 SDL (benzo(g,h,i)perylene)	· Personalis de la compansión de la compansión de la compansión de la compansión de la compansión de la compa		
	General Sta		******************************
Number of Valid Samples	8	Number of Unique Samples	6
Raw Statistics		Log-transformed Statistics	
Minimum	0.0075	Minimum of Log Data	-4.893
Maximum	0.135	Maximum of Log Data	-2.002
Mean	0.024	Mean of log Data	-4.466
Median	0.0079	SD of log Data	1
SD	0.0449		
Coefficient of Variation	1.871		
Skewness	2.826		
R	elevant UCL	Statistics	and the state of t
Normal Distribution Test	***************************************	Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.433	Shapiro Wilk Test Statistic	0.495
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.054	95% H-UCL	0.0711
95% UCLs (Adjusted for Skewness)	U.UU T	95% Chebyshev (MVUE) UCL	0.0449
95% Adjusted-CLT UCL	0.067	97.5% Chebyshev (MVUE) UCL	0.0568
95% Modified-t UCL	0.0567	99% Chebyshev (MVUE) UCL	0.0802
	-1000/	· ·	J.JUUE
Gamma Distribution Test	***	Data Distribution	edite i de l'ilegani de primite i di in mode descri
k star (bias corrected)	0.587	Data do not follow a Discernable Distribution (0.05	i)
Theta Star	0.0408		er i Eddforgerende frança sagilita es frança nas par
nu star	9.393		
Approximate Chi Square Value (.05)	3.566	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.0501
Adjusted Chi Square Value	2.719	95% Jackknife UCL	0.054

	San De Herri de de Rais		er ret el
		95% Standard Bootstrap UCL	0.04
Anderson-Darling Test Statistic	2.272	95% Bootstrap-t UCL	2.08
Anderson-Darling 5% Critical Value	0.743	95% Hall's Bootstrap UCL	0.88
Kolmogorov-Smirnov Test Statistic	0.49	95% Percentile Bootstrap UCL	0.05
Kolmogorov-Smirnov 5% Critical Value	0.303	95% BCA Bootstrap UCL	0.07
Data not Gamma Distributed at 5% Significance Le	ļ	95% Chebyshev(Mean, Sd) UCL	0.09
		97.5% Chebyshev(Mean, Sd) UCL	0.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.1
95% Approximate Gamma UCL	0.0632	oo // Oncoysho (Medil, Od) Col	
95% Adjusted Gamma UCL	0.0828	annonne menunganorina para manaka menungan kenturun dan panahan dan saman menadapat dan menungan berasar dan d	
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.18
	CL exceeds th	ne maximum observation	<b>U.</b> 1
t or 1/2 SDL (benzo(k)fluoranthene)			
Now have O'r list O was been	General Stat		
Number of Valid Samples	8	Number of Unique Samples	7
Raw Statistics		Log-transformed Statistics	
Minimum	0.0115	Minimum of Log Data	-4.46
Maximum	0.13	Maximum of Log Data	-2.04
Mean	0.0527	Mean of log Data	-3.53
Median	0.0138	SD of log Data	1.1
SD	0.0557		
Coefficient of Variation	1.058		***************************************
Skewness	0.678		
R	elevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.695	Shapiro Wilk Test Statistic	0,7
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.09	95% H-UCL	0.3
	0.09		
95% UCLs (Adjusted for Skewness)	0.0001	95% Chebyshev (MVUE) UCL	0.1
95% Adjusted-CLT UCL	0.0901	97.5% Chebyshev (MVUE) UCL	0.1
95% Modified-t UCL	0.0908	99% Chebyshev (MVUE) UCL	0.2
Gamma Distribution Test		Data Distribution	***************************************
1 , 4:		Data do not follow a Discernable Distribution (0.05	)
k star (bias corrected)	0.691		
K star (bias corrected)  Theta Star	0.691 0.0762		
Theta Star nu star Approximate Chi Square Value (.05)	0.0762	Nonparametric Statistics	
Theta Star nu star	0.0762 11.06		0.0
Theta Star nu star Approximate Chi Square Value (.05)	0.0762 11.06 4.613	Nonparametric Statistics	
Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0762 11.06 4.613 0.0195	Nonparametric Statistics 95% CLT UCL	0.00
Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance	0.0762 11.06 4.613 0.0195	Nonparametric Statistics 95% CLT UCL 95% Jackknife UCL	0.0
Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	0.0762 11.06 4.613 0.0195 3.619	Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL	0.0

Kolmogorov-Smirnov 5% Critical Value	i .	95% BCA Bootstrap UCL	0.08
Data not Gamma Distributed at 5% Significance L	-evel	95% Chebyshev(Mean, Sd) UCL	0.13
		97.5% Chebyshev(Mean, Sd) UCL	0.17
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.24
95% Approximate Gamma UCL			
95% Adjusted Gamma UCL	0.161		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	0.24
Recommended	UCL exceed	s the maximum observation	
sult or 1/2 SDL (beryllium)			
	General	Statistics	
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	<b></b>
Minimum	0.58	Minimum of Log Data	-0.545
Maximum	1.13	Maximum of Log Data	0.12
Mean	0.834	Mean of log Data	-0.209
Median	0.865	SD of log Data	0.25
SD	0.206		
Coefficient of Variation	0.247		
Skewness	0.0408		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.926	Shapiro Wilk Test Statistic	0.91
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	<u> </u>
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.972	95% H-UCL	1.01
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.16
95% Adjusted-CLT UCL	0.954	97.5% Chebyshev (MVUE) UCL	1.30
95% Modified-t UCL	0.972	99% Chebyshev (MVUE) UCL	1.58
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	11.5	Data appear Normal at 5% Significance Level	
Theta Star			
nu star	183.9		
Approximate Chi Square Value (.05)	153.6	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.9
Adjusted Chi Square Value	146.5	95% Jackknife UCL	0.97
, agassa on oqualo value		95% Standard Bootstrap UCL	0.94
Anderson-Darling Test Statistic	0.371	95% Bootstrap-t UCL	0.9
Anderson-Darling 76st Statistic	<u> </u>	95% Hall's Bootstrap UCL	0.9
Kolmogorov-Smirnov Test Statistic	1	95% Percentile Bootstrap UCL	0.9
_	<u> </u>	95% BCA Bootstrap UCL	0.9
Kolmogorou Emirnou Et/ Oritical Value		93% BLA BODISITAD UC.	ບ.ສ.
Kolmogorov-Smirnov 5% Critical Value			4 4 5
Kolmogorov-Smirnov 5% Critical Value  Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	1.18 1.28

	la marka in ter	   大変範疇を行ることでは、1995年に1995年を2005年と2008年は、2018年2018年2018年2018年2018年2018年2018年2018年	e order og generalende
95% Approximate Gamma UCL	0.999		
95% Adjusted Gamma UCL	1.047		
Potential UCL to Use	J	Use 95% Student's-t UCL	0.97
sult or 1/2 SDL (beta-bhc)			
	General	Statistics	
Number of Valid Samples	8	Number of Unique Samples	7
Raw Statistics		Log-transformed Statistics	
Minimum	2.4400E-4	Minimum of Log Data	-8.318
Maximum	0.015	Maximum of Log Data	-4.2
Mean	0.0079	Mean of log Data	-5.72
Median	0.0115	SD of log Data	1.87
SD	0.0063		
Coefficient of Variation	0.799		***************************************
Skewness	-0.521		
F	Relevant UC	CL Statistics	leri - Milos anni dei dei depèratione
Normal Distribution Test		Lognormal Distribution Test	4-1-1-1-1-1-1
Shapiro Wilk Test Statistic	0.771	Shapiro Wilk Test Statistic	0.72
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0122	95% H-UCL	1.23
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.04
95% Adjusted-CLT UCL	0.0112		0.06
95% Modified-t UCL	0.0122	99% Chebyshev (MVUE) UCL	0.09
Gamma Distribution Test	To the state of th	Data Distribution	······································
Gamma Distribution Test k star (bias corrected)	0.51	Data Distribution  Data do not follow a Discernable Distribution (0.05	<u>)</u>
	0.0156		5)
k star (bias corrected)  Theta Star - nu star	0.0156 8.162	Data do not follow a Discernable Distribution (0.05	)
k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)	0.0156 8.162 2.829	Data do not follow a Discernable Distribution (0.05  Nonparametric Statistics	
k star (bias corrected)  Theta Star - nu star  Approximate Chi Square Value (.05)  Adjusted Level of Significance	0.0156 8.162 2.829 0.0195	Data do not follow a Discernable Distribution (0.05  Nonparametric Statistics  95% CLT UCL	0.01
k star (bias corrected)  Theta Star  nu star  Approximate Chi Square Value (.05)	0.0156 8.162 2.829	Data do not follow a Discernable Distribution (0.05  Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL	0.01
k star (bias corrected)  Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value	0.0156 8.162 2.829 0.0195 2.098	Data do not follow a Discernable Distribution (0.05  Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL	0.01 0.01 0.01
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic	0.0156 8.162 2.829 0.0195 2.098	Data do not follow a Discernable Distribution (0.05  Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL  95% Bootstrap-t UCL	0.01 0.01 0.01
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value	0.0156 8.162 2.829 0.0195 2.098 1.185 0.75	Data do not follow a Discernable Distribution (0.05  Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL  95% Bootstrap-t UCL  95% Hall's Bootstrap UCL	0.01 0.01 0.01 0.01
k star (bias corrected)  Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.0156 8.162 2.829 0.0195 2.098 1.185 0.75 0.39	Data do not follow a Discernable Distribution (0.05  Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL  95% Bootstrap-t UCL  95% Hall's Bootstrap UCL  95% Percentile Bootstrap UCL	0.01 0.01 0.01 0.01 0.01
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.0156 8.162 2.829 0.0195 2.098 1.185 0.75 0.39 0.305	Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL  95% Hall's Bootstrap UCL  95% Percentile Bootstrap UCL  95% BCA Bootstrap UCL	0.01 0.01 0.01 0.01 0.01 0.01
k star (bias corrected)  Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value  Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic	0.0156 8.162 2.829 0.0195 2.098 1.185 0.75 0.39 0.305	Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Bootstrap UCL  95% Hall's Bootstrap UCL  95% Percentile Bootstrap UCL  95% BCA Bootstrap UCL  95% Chebyshev(Mean, Sd) UCL	0.01 0.01 0.01 0.01 0.01 0.01
k star (bias corrected)  Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Le	0.0156 8.162 2.829 0.0195 2.098 1.185 0.75 0.39 0.305	Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL  95% Bootstrap-t UCL  95% Percentile Bootstrap UCL  95% BCA Bootstrap UCL  95% Chebyshev(Mean, Sd) UCL  97.5% Chebyshev(Mean, Sd) UCL	0.01 0.01 0.01 0.01 0.01 0.01 0.01
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value	0.0156 8.162 2.829 0.0195 2.098 1.185 0.75 0.39 0.305	Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Bootstrap UCL  95% Hall's Bootstrap UCL  95% Percentile Bootstrap UCL  95% BCA Bootstrap UCL  95% Chebyshev(Mean, Sd) UCL	0.01 0.01 0.01 0.01 0.01 0.01 0.01
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Le	0.0156 8.162 2.829 0.0195 2.098 1.185 0.75 0.39 0.305	Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL  95% Bootstrap-t UCL  95% Percentile Bootstrap UCL  95% BCA Bootstrap UCL  95% Chebyshev(Mean, Sd) UCL  97.5% Chebyshev(Mean, Sd) UCL	0.01 0.01 0.01 0.01 0.01 0.01 0.01
k star (bias corrected) Theta Star nu star Approximate Chi Square Value (.05) Adjusted Level of Significance Adjusted Chi Square Value Anderson-Darling Test Statistic Anderson-Darling 5% Critical Value Kolmogorov-Smirnov Test Statistic Kolmogorov-Smirnov 5% Critical Value Data not Gamma Distributed at 5% Significance Le  Assuming Gamma Distribution 95% Approximate Gamma UCL	0.0156 8.162 2.829 0.0195 2.098 1.185 0.75 0.39 0.305 evel	Nonparametric Statistics  95% CLT UCL  95% Jackknife UCL  95% Standard Bootstrap UCL  95% Bootstrap-t UCL  95% Percentile Bootstrap UCL  95% BCA Bootstrap UCL  95% Chebyshev(Mean, Sd) UCL  97.5% Chebyshev(Mean, Sd) UCL	0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.03

sult or 1/2 SDL (boron)			
	Conoral	Statistics	
Number of Valid Samples		Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	E-11-2-12-11-11-11-11-11-11-11-11-11-11-1
Minimum	4.26	Minimum of Log Data	1.44
Maximum	28.4	Maximum of Log Data	. 3.34
Mean	14.95	Mean of log Data	2.43
Median	12.4	SD of log Data	0.81
SD	10.5		
Coefficient of Variation	0.702		
Skewness	0.337		
	Dolovent I I	CL Statistics	
Normal Distribution Test	Relevant O	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.837	Shapiro Wilk Test Statistic	0.852
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data appear Normal at 5% Significance Level	1	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	•••••••••••••••••••••••••••••••••••••••
95% Student's-t UCL	21.98	95% H-UCL	40.99
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	34.74
95% Adjusted-CLT UCL	21.53	97.5% Chebyshev (MVUE) UCL	43.18
95% Modified-t UCL	22.06	99% Chebyshev (MVUE) UCL	59.77
	filesoft (Collection Collection C		
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.355	Data appear Normal at 5% Significance Level	
Theta Star	11.03		
nu star	21.69		
Approximate Chi Square Value (.05)	12.1	Nonparametric Statistics 95% CLT UCL	21.00
Adjusted Level of Significance Adjusted Chi Square Value	0.0195 10.34	95% CLT OCL 95% Jackknife UCL	21.06 21.98
Adjusted Citi Square Value	10.34	95% Standard Bootstrap UCL	20.6
Anderson-Darling Test Statistic	0.562	95% Bootstrap-t UCL	22.63
Anderson-Darling 5% Critical Value	0.724	95% Hall's Bootstrap UCL	19.35
Kolmogorov-Smirnov Test Statistic	0.236	95% Percentile Bootstrap UCL	20.79
Kolmogorov-Smirnov 5% Critical Value	0.297	95% BCA Bootstrap UCL	20.78
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	31.13
		97.5% Chebyshev(Mean, Sd) UCL	38.13
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	51.87
95% Approximate Gamma UCL	26.79		<i>-</i>
95% Adjusted Gamma UCL	31.36		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Potential UCL to Use		Use 95% Student's-t UCL	21.98

General Statistics

	1444 J		Para di Nasa Tanan
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	0.0013	Minimum of Log Data	-6.63
Maximum	0.031	Maximum of Log Data	-3.474
Mean	0.0089	Mean of log Data	-5.269
Median	0.0067	SD of log Data	1.16
SD	0.0099		
Coefficient of Variation	1.115		
Skewness	1.87		
R	elevant UCL	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.777	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level	0.010	Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0156	95% H-UCL	0.05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.02
95% Adjusted-CLT UCL	0.0172	97.5% Chebyshev (MVUE) UCL	0.03
95% Modified-t UCL	0.016	99% Chebyshev (MVUE) UCL	0.04
Gamma Distribution Test	ALL PART OF	Data Distribution	manustri e di Hoto
k star (bias corrected)	0.737	Data appear Gamma Distributed at 5% Significance I	_evel
Theta Star	0.0121		
nu star	11.79		
Approximate Chi Square Value (.05)	5.091	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.01
Adjusted Chi Square Value	4.035	95% Jackknife UCL	0.01
		95% Standard Bootstrap UCL	0.01
Anderson-Darling Test Statistic	0.406	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.735	95% Hall's Bootstrap UCL	0.04
Kolmogorov-Smirnov Test Statistic	0.226	95% Percentile Bootstrap UCL	0.01
Kolmogorov-Smirnov 5% Critical Value	0.301	95% BCA Bootstrap UCL	0.01
Data appear Gamma Distributed at 5% Significance L	.evel	95% Chebyshev(Mean, Sd) UCL	0.02
		97.5% Chebyshev(Mean, Sd) UCL	0.03
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.04
95% Approximate Gamma UCL	0.0206		
95% Adjusted Gamma UCL	0.0261		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.02
Potential UCL to Use  esult or 1/2 SDL (cadmium)			0.02
Number of Valid Samples	General Sta	atistics  Number of Unique Samples	7
		<u> </u>	
Raw Statistics		Log-transformed Statistics	
Minimum	0.015	Minimum of Log Data	-4.2
Maximum	0.27	Maximum of Log Data	-1.309

Mean	0.147	Mean of log Data	-2.491
Median	0.19	SD of log Data	1.37
SD	0.112		44.44 mil 1 ga 1744 Pa Pl <b>aPad 1</b> 4.471 pro
Coefficient of Variation	0.762		
Skewness	-0.424		
	Relevant U	CL Statistics	**************************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.802	Shapiro Wilk Test Statistic	0.71
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level	ettellandikettan arben belen bel	Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution	materia (atomie vilebela (veta	Assuming Lognormal Distribution	
95% Student's-t UCL	0.222	95% H-UCL	2.23
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.56
95% Adjusted-CLT UCL	0.206	97.5% Chebyshev (MVUE) UCL	0.72
95% Modified-t UCL	0.221	99% Chebyshev (MVUE) UCL	1.05
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.711	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	0.207		- ,
nu star	11.37		<b>4</b> ,
Approximate Chi Square Value (.05)	4.814	Nonparametric Statistics	
Adjusted Level of Significance	0.0195		0.21
Adjusted Chi Square Value	3.794	95% Jackknife UCL	0.22
/lajasted off oquality value	0.701	95% Standard Bootstrap UCL	0.20
Anderson-Darling Test Statistic	1.11	95% Bootstrap-t UCL	0.21
Anderson-Darling 5% Critical Value	0.735	95% Hall's Bootstrap UCL	0.19
	0.735	95% Percentile Bootstrap UCL	0.19
Kolmogorov-Smirnov Test Statistic			
Kolmogorov-Smirnov 5% Critical Value	0.301	95% BCA Bootstrap UCL	0.20
Data not Gamma Distributed at 5% Significance Lo	evel	95% Chebyshev(Mean, Sd) UCL	0.32
		97.5% Chebyshev(Mean, Sd) UCL	0.39
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.54
95% Approximate Gamma UCL	0.348		******************************
95% Adjusted Gamma UCL	0.441		
Potential UCL to Use		Use 99% Chebyshev (Меал, Sd) UCL	0.54
Recommended U	JCL exceed	ds the maximum observation	
sult or 1/2 SDL (carbon disulfide)			
	General	Statistics	
Number of Valid Samples	General 8	Number of Unique Samples	8
Raw Statistics	Name de la constante de la cons	Log-transformed Statistics	
······································	9.5500E-5	Minimum of Log Data	-9.256
Maximum	0.0077		-4.865
Mean	0.0013		-7.554
	4.8175E-4	SD of log Data	1.36
SD	0.0025		
Coefficient of Variation	1.875		

Skewness	2.757		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.522	Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.0031	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00
95% Adjusted-CLT UCL	0.0038	97.5% Chebyshev (MVUE) UCL	0.00
95% Modified-t UCL	0.0032	99% Chebyshev (MVUE) UCL	0.00
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.48	Data Follow Appr. Gamma Distribution at 5% Significance	e Leve
Theta Star	0.0028		
nu star	7.688		
Approximate Chi Square Value (.05)	2.555	Nonparametric Statistics	.40.11.000.000
Adjusted Level of Significance	0.0195	95% CLT UCL	0.00
Adjusted Chi Square Value	1.871	95% Jackknife UCL	0.00
		95% Standard Bootstrap UCL	0.00
Anderson-Darling Test Statistic	0.892	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.298	95% Percentile Bootstrap UCL	0.00
Kolmogorov-Smirnov 7est Statistic	0.306	95% BCA Bootstrap UCL	0.00
Data follow Appr. Gamma Distribution at 5% Significan		95% Chebyshev(Mean, Sd) UCL	0.00
Data follow Appl. Gallillia Distribution at 5% Significan	ce resei	97.5% Chebyshev(Mean, Sd) UCL	0.00
Acquaries Oceano Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution	0.0041	99% Chebyshev(weah, Su) occ	0.0
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	0.0041 0.0056		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.00
esult or 1/2 SDL (chromium)			
	General S		
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	8.29	Minimum of Log Data	2.11
Maximum	20.1	Maximum of Log Data	3.00
Mean	12.93	Mean of log Data	2.50
Median	11.55	SD of log Data	0.35
SD	4.611		
Coefficient of Variation	0.357		
Skewness	0.57		na unertribudi i
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.881	Shapiro Wilk Test Statistic	0.89

Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data appear Normal at 5% Significance Level	1	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	16.02	95% H-UCL	17.29
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	19.93
95% Adjusted-CLT UCL	15.97	97.5% Chebyshev (MVUE) UCL	22.96
95% Modified-t UCL	16.08	99% Chebyshev (MVUE) UCL	28.91
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	5.937	Data appear Normal at 5% Significance Level	
Theta Star	2.178		
nu star	94.99		
Approximate Chi Square Value (.05)	73.51	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	15.61
Adjusted Chi Square Value	68.75	95% Jackknife UCL	16.02
, ajased om equate value		95% Standard Bootstrap UCL	15.41
Anderson-Darling Test Statistic	0.448	95% Bootstrap-t UCL	16.66
	0.715	95% Hall's Bootstrap UCL	15.32
Anderson-Darling 5% Critical Value  Kolmogorov-Smirnov Test Statistic	0.713	95% Percentile Bootstrap UCL	15.52
		· 1	
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	15.63
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	20.04
		97.5% Chebyshev(Mean, Sd) UCL	23.11
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	29.15
95% Approximate Gamma UCL	16.71		
95% Adjusted Gamma UCL	17.87		
Potential UCL to Use		Use 95% Student's-t UCL	16.02
esult or 1/2 SDL (chrysene)			
	General S		
Number of Valid Samples	8	Number of Unique Samples	5
Raw Statistics		Log-transformed Statistics	***************************************
Minimum	0.0065	Minimum of Log Data	-5.036
Maximum	0.0257	Maximum of Log Data	-3.661
Mean	0.0094	Mean of log Data	-4.785
Median	0.007	SD of log Data	0.46
SD	0.0065		
Coefficient of Variation	0.697		
Skewness	2.777		20 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
. torridi bidribatidii 1001	0.501	Shapiro Wilk Test Statistic	0.57
Shapiro Wilk Test Statistic	•	Shapiro Wilk Critical Value	0.81
	0.818	Onapilo Wilk Ontical Value	0,0 ,
Shapiro Wilk Test Statistic	0.818	Data not Lognormal at 5% Significance Level	
Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.818	•	

95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.015	
95% Adjusted-CLT UCL	0.0157	97.5% Chebyshev (MVUE) UCL	0.018	
95% Modified-t UCL	0.0143	99% Chebyshev (MVUE) UCL	0.024	
Gamma Distribution Test		Data Distribution		
k star (bias corrected)	2.693	Data do not follow a Discernable Distribution (0.05)		
Theta Star	0.0035			
nu star	43.09			
Approximate Chi Square Value (.05)	29.04	Nonparametric Statistics		
Adjusted Level of Significance	0.0195	95% CLT UCL	0.013	
Adjusted Chi Square Value	26.16	95% Jackknife UCL	0.013	
	mortisan esembaron en	95% Standard Bootstrap UCL	0.013	
Anderson-Darling Test Statistic	1.788	95% Bootstrap-t UCL	0.058	
Anderson-Darling 5% Critical Value	0.719	95% Hall's Bootstrap UCL	0.037	
Kolmogorov-Smirnov Test Statistic	0.395	95% Percentile Bootstrap UCL	0.014	
Kolmogorov-Smirnov 5% Critical Value	0.295	95% BCA Bootstrap UCL	0.014	
Data not Gamma Distributed at 5% Significance Le	<u> </u>	95% Chebyshev(Mean, Sd) UCL	0.019	
		97.5% Chebyshev(Mean, Sd) UCL	0.024	
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.032	
95% Approximate Gamma UCL	0.014	3370 Olichystic Vivient, ddy Goel	0.002	
95% Adjusted Gamma UCL	0.0156			
33 / Aujusteu Gamma OCL	0.0130			
Potential UCL to Use		Use 95% Student's-t UCL	0.013	
1 Otential OCE to use		or 95% Modified-t UCL	0.013	
t or 1/2 SDL (cobalt)				
t or 1/2 SDL (cobalt)				
t or 1/2 SDL (cobalt)  Number of Valid Samples	General Stat	istics  Number of Unique Samples	8	
			8	
			8	
Number of Valid Samples		Number of Unique Samples	8	
Number of Valid Samples Raw Statistics	8	Number of Unique Samples  Log-transformed Statistics		
Number of Valid Samples  Raw Statistics  Minimum	5.19	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	1.647	
Number of Valid Samples  Raw Statistics  Minimum  Maximum	5.19	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	1.647 2.196	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	5.19 8.99 6.939	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	1.647 2.196 1.92	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	5.19 8.99 6.939 6.945	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	1.647 2.196 1.92	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	5.19 8.99 6.939 6.945 1.378	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	1.647 2.196 1.92	
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	5.19 8.99 6.939 6.945 1.378 0.199 0.167	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	1.647 2.196 1.92	
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	5.19 8.99 6.939 6.945 1.378 0.199	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	1.647 2.196 1.92	
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	5.19 8.99 6.939 6.945 1.378 0.199 0.167	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	1.647 2.196 1.92	
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	5.19 8.99 6.939 6.945 1.378 0.199 0.167	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  tatistics  Lognormal Distribution Test	1.647 2.196 1.92 0.2	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic	5.19 8.99 6.939 6.945 1.378 0.199 0.167 elevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	1.647 2.196 1.92 0.2	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level	5.19 8.99 6.939 6.945 1.378 0.199 0.167 elevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	1.647 2.196 1.92 0.2	
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution	5.19 8.99 6.939 6.945 1.378 0.199 0.167 elevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	1.647 2.196 1.92 0.2 0.945 0.818	
Number of Valid Samples  Raw Statistics  Minimum Maximum Mean Median SD Coefficient of Variation Skewness  R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL	5.19 8.99 6.939 6.945 1.378 0.199 0.167 elevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  tatistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	1.647 2.196 1.92 0.2 0.945 0.818	
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation  Skewness  R  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	5.19 8.99 6.939 6.945 1.378 0.199 0.167 elevant UCL S 0.947 0.818	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	1.647 2.196 1.92 0.2 0.945 0.818 8.067 9.086	
Number of Valid Samples  Raw Statistics  Minimum Maximum Mean Median SD Coefficient of Variation Skewness  R Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL	5.19 8.99 6.939 6.945 1.378 0.199 0.167 elevant UCL S	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  tatistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	1.647 2.196 1.92 0.2 0.945 0.818	

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	<u> </u>	Data appear Normal at 5% Significance Level	
Theta Star	<u> </u>		
nu star			
Approximate Chi Square Value (.05)	251.1	Nonparametric Statistics	
Adjusted Level of Significance	0.0195		7.74
Adjusted Chi Square Value	242	95% Jackknife UCL	7.86
		95% Standard Bootstrap UCL	7.68
Anderson-Darling Test Statistic	0.268	95% Bootstrap-t UCL	7.8
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	7.6
Kolmogorov-Smirnov Test Statistic	0.197	95% Percentile Bootstrap UCL	7.6
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	7.6
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	9.0
		97.5% Chebyshev(Mean, Sd) UCL	9.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	11.7
95% Approximate Gamma UCL	8		
95% Adjusted Gamma UCL	8.3		
Potential UCL to Use		Use 95% Student's-t UCL	7.8
	General		
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	8.33	Minimum of Log Data	2.1
Maximum	26.8	Maximum of Log Data	3.2
Mean	15.2	Mean of log Data	2.6
Median	12.55	SD of log Data	0.4
SD	7.421		
Coefficient of Variation	0.488		
Skewness	0.836		
	Relevant UC	CL Statistics	
Normal Distribution Test	0045	Lognormal Distribution Test	Λ 0
Shapiro Wilk Test Statistic	0.845 0.818	Shapiro Wilk Test Statistic Shapiro Wilk Critical Value	0.8
Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level	0.818	Data appear Lognormal at 5% Significance Level	
Accuming Normal Distribution		Assuming Lognormal Distribution	
Assuming Normal Distribution 95% Student's-t UCL	20.17	95% H-UCL	23.1
95% UCLs (Adjusted for Skewness)	۷۷,۱/	95% Chebyshev (MVUE) UCL	26.1
95% OCLS (Adjusted for Skewness)  95% Adjusted-CLT UCL	20.34	97.5% Chebyshev (MVUE) UCL	30.9
95% Adjusted-CLT OCL 95% Modified-t UCL	20.34	99% Chebyshev (MVUE) UCL	40.2
Gamma Distribution Test		Data Distribution	
Camina Distribution Lest			
k etar/hiae corroctod)	3 353	I lata appear Mormai at 5% Significance i evel	
k star (bias corrected) Theta Star	3.353 4.533	Data appear Normal at 5% Significance Level	-4
k star (bias corrected) Theta Star nu star	3.353 4.533 53.65	Data appear Normal at 5% Significance Level	

The state that safety along the weeks a decreased to the second of the s	1-51 × 5	errors composes and tradescent area for the file services and the second section of the section of the sectio	in e Nordena
Adjusted Level of Significance	0.0195	95% CLT UCL	19.51
Adjusted Chi Square Value	i .	95% Jackknife UCL	20.17
Adjusted Oil Oquale Value	34.43	95% Standard Bootstrap UCL	19.15
Anderson-Darling Test Statistic	0.476	95% Standard Bootstrap UCL	23.91
	<u> </u>		23.91
Anderson-Darling 5% Critical Value	ŧ	95% Hall's Bootstrap UCL	
Kolmogorov-Smirnov Test Statistic	]	95% Percentile Bootstrap UCL	19.18
Kolmogorov-Smirnov 5% Critical Value	{	95% BCA Bootstrap UCL	19.81
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	26.64
		97.5% Chebyshev(Mean, Sd) UCL	31.58
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	41.31
95% Approximate Gamma UCL			
95% Adjusted Gamma UCL	23.64		
Potential UCL to Use		Use 95% Student's-t UCL	20.17
Result or 1/2 SDL (iron)			
	General S	Statistics	
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	11300	Minimum of Log Data	9.33
Maximum		Maximum of Log Data	9.90
		Mean of log Data	9.61
Mean		[	
Median		SD of log Data	0.21
SD ST	3227		
Coefficient of Variation	0.211 0.139		
Skewness	U.139		
	Relevant UC	Polyndal malayana ana ang 4446-ya ata mang baga ana ang ang ang ang ang ang ang ang	
Normal Distribution Test	) All programmes and a	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.94	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value		Shapiro Wilk Critical Value	0.81
Data appear Normal at 5% Significance Level	4	Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution	de décentraries de la constant de la	Assuming Lognormal Distribution	
95% Student's-t UCL	17437		17970
95% UCLs (Adjusted for Skewness)	L,		20327
95% Adjusted-CLT UCL	17212		22512
95% Modified-t UCL	} 		26805
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	15.92	Data appear Normal at 5% Significance Level	
Theta Star	959.6		
nu star	254.7		
Approximate Chi Square Value (.05)	218.7	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	
Adjusted Chi Square Value	210.3		17437
			16994
Anderson-Darling Test Statistic	0.298	•	17461
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	16993

	عالمت بالزيارة		
Kolmogorov-Smirnov Test Statistic	0.203	95% Percentile Bootstrap UCL	
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	17050
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	20249
		97.5% Chebyshev(Mean, Sd) UCL	22401
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	26629
95% Approximate Gamma UCL	17786		
95% Adjusted Gamma UCL	18500		
Potential UCL to Use		Use 95% Student's-t UCL	17437
sult or 1/2 SDL (lead)			
	General	Statistics	
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics	Maraman trade a theory - Personal Co.	Log-transformed Statistics	
Minimum	10.6	Minimum of Log Data	2.36
Maximum	30.5	Maximum of Log Data	3.41
Mean	17.54	Mean of log Data	2.79
Median	15.5	SD of log Data	0.38
SD	7.076		
Coefficient of Variation	0.403		
Skewness	0.923		
F	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.899	Shapiro Wilk Test Statistic	0.93
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	1
Assuming Normal Distribution		Assuming Lognormal Distribution	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
95% Student's-t UCL	22.28	95% H-UCL	24.3
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	27.92
95% Adjusted-CLT UCL	22.52	97.5% Chebyshev (MVUE) UCL	32.44
95% Modified-t UCL	22.41	99% Chebyshev (MVUE) UCL	41.3
Garnma Distribution Test	·	Data Distribution	
k star (bias corrected)	4.874	Data appear Normal at 5% Significance Level	
Theta Star	3.598		***************************************
nu star	77.99	18-18-4-5-4-5-4-4-4-18-18-18-18-18-18-18-18-18-18-18-18-18-	
Approximate Chi Square Value (.05)	58.64	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	21.65
Adjusted Chi Square Value	54.42	95% Jackknife UCL	22.28
		95% Standard Bootstrap UCL	21.37
Anderson-Darling Test Statistic	0.324	95% Bootstrap-t UCL	23.69
Anderson-Darling 5% Critical Value	0.717	95% Hall's Bootstrap UCL	22.55
Kolmogorov-Smirnov Test Statistic	0.187	95% Percentile Bootstrap UCL	21.63
Kolmogorov-Smirnov 5% Critical Value	0.295	95% BCA Bootstrap UCL	22.26
		== .5 20 200.0. ap 00m	
		95% Chebyshev(Mean. Sd) LICI	28.44
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL 97.5% Chebyshev(Mean, Sd) UCL	28.44 33.16

	22.22		
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	23.32 25.13		
oow agasto damii oo	20.10		***************************************
Potential UCL to Use		Use 95% Student's-t UCL	22.28
esult or 1/2 SDL (lithium)			
Salt of 172 obe (initially)	General S	Valiation	
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	v.m.p.m.b.m.t.m.t.m.t.m.t.m.t.m.t.m.t.m.t.m.t
. Minimum	13.5	Minimum of Log Data	2.60
Maximum	23.7	Maximum of Log Data	3.16
Mean	18.48	Mean of log Data	2.89
Median	18.85	SD of log Data	0.22
SD	4.071		
Coefficient of Variation	0.22		
Skewness	0.0036		
	Relevant UC		
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.903	Shapiro Wilk Test Statistic	0.89
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.8
Data appear Normal at 5% Significance Level	S. Vicenses	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	21.2	95% H-UCL	21.9
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	24.92
95% Adjusted-CLT UCL	20.84	97.5% Chebyshev (MVUE) UCL	27.7
95% Modified-t UCL	21.2	99% Chebyshev (MVUE) UCL	33.1
Gamma Distribution Test	The state of the s	Data Distribution	
k star (bias corrected)	14.45	Data appear Normal at 5% Significance Level	
Theta Star	1.278		
nu star	231.2		
Approximate Chi Square Value (.05)	197	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	20.84
Adjusted Chi Square Value	189	95% Jackknife UCL	21.2
		95% Standard Bootstrap UCL	20.6
Anderson-Darling Test Statistic	0.416	95% Bootstrap-t UCL	21.1
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	20.5
Kolmogorov-Smirnov Test Statistic	0.22	95% Percentile Bootstrap UCL	20.6
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	20.6
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	24.7
		97.5% Chebyshev(Mean, Sd) UCL	27.4
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	32.8
95% Approximate Gamma UCL	21.68		
95% Adjusted Gamma UCL	22.6		***************************************
	<u> </u>		

	***************************************		
	General Sta	tistics	***************************************
Number of Valid Samples	8	Number of Unique Samples	7
Raw Statistics	Ì	Log-transformed Statistics	
Minimum	0.0105	Minimum of Log Data	-4.55
Maximum	0.0375	Maximum of Log Data	-3.28
Mean	0.0149	Mean of log Data	-4.3
Median	0.0117	SD of log Data	0.4
SD	0.0092		.mmmai
Coefficient of Variation	0.619		
Skewness	2.758		
R	elevant UCL S	Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.523	Shapiro Wilk Test Statistic	0.6
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	3.0
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.021	95% H-UCL	0.0
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0
95% Adjusted-CLT UCL	0.0236	97.5% Chebyshev (MVUE) UCL	0.0
95% Modified-t UCL	0.0216	99% Chebyshev (MVUE) UCL	0.0
Gamma Distribution Test	-	.  Data Distribution	***************************************
k star (bias corrected)	3.242	Data Distribution  Data do not follow a Discernable Distribution (0.05	````
Theta Star	0.0045	Data do not follow a Discernable Distribution (0.03	)
nu star	51.87		L
Approximate Chi Square Value (.05)	36.33	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.0
Adjusted Chi Square Value	33.07	95% Jackknife UCL	0.0
, ajaseg em equale value	00.07	95% Standard Bootstrap UCL	0.0
Anderson-Darling Test Statistic	1.626	95% Bootstrap-t UCL	0.0
Anderson-Darling 5% Critical Value	0.719	95% Hall's Bootstrap UCL	0.0
Kolmogorov-Smirnov Test Statistic	0.401	95% Percentile Bootstrap UCL	0.0
Kolmogorov-Smirnov 5% Critical Value	0.295	95% BCA Bootstrap UCL	0.0
Data not Gamma Distributed at 5% Significance Le		95% Chebyshev(Mean, Sd) UCL	0.0
3		97.5% Chebyshev(Mean, Sd) UCL	0.0
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.0
95% Approximate Gamma UCL	0.0212	7.1.2 (1.1.2)	J, J
95% Adjusted Gamma UCL	0.0233		***************************************
Potential UCL to Use	Period and analysis and	Use 95% Student's-t UCL	0.0
r diential oct to use			
Million and College Co	Į	or 95% Modified-t UCL	0.0

General Statistics

Number of Valid Samples	8	Number of Unique Samples	8
Number of Valid Campies		italibei di dilique dalliples	
Raw Statistics		Log-transformed Statistics	
Minimum	352	Minimum of Log Data	5.8
Maximum	<u> </u>	Maximum of Log Data	6.5
Mean	487.6	Mean of log Data	6.1
Median	453	SD of log Data	0.2
SD	124.2	g	
Coefficient of Variation	0.255		
Skewness	0.739		
	Relevant I I	CL Statistics	
Normal Distribution Test	nelevant O	Lognormal Distribution Test	~
Shapiro Wilk Test Statistic	0.921	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.921	Shapiro Wilk Critical Value	0.8
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Data appear Normal at 5% Significance Level	1911/04-111/04/14/1907-11/1917-1914	Data appear Lognormal at 5% Significance Leve	***************************************
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	570.8	95% H-UCL	590.3
95% UCLs (Adjusted for Skewness)	Mari-Man Was Livinia et Memaria anno	95% Chebyshev (MVUE) UCL	673.6
95% Adjusted-CLT UCL	572.1	97.5% Chebyshev (MVUE) UCL	754.2
95% Modified-t UCL	572.7	99% Chebyshev (MVUE) UCL	912.6
Gamma Distribution Test	······································	Data Distribution	
k star (bias corrected)	11.66	Data appear Normal at 5% Significance Level	
Theta Star	41.81		
nu star	186.6		
Approximate Chi Square Value (.05)	156	Nonparametric Statistics	d
Adjusted Level of Significance	0.0195		559.8
Adjusted Chi Square Value		95% Jackknife UCL	570.8
Adjusted of a oquate value	140.0	95% Standard Bootstrap UCL	556
Anderson-Darling Test Statistic	0.297	95% Bootstrap-t UCL	592.1
		1	
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	575
Kolmogorov-Smirnov Test Statistic	0.171	95% Percentile Bootstrap UCL	560.3
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	567
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	679
		97.5% Chebyshev(Mean, Sd) UCL	761.8
Assuming Gamma Distribution	************************	99% Chebyshev(Mean, Sd) UCL	924.4
95% Approximate Gamma UCL 95% Adjusted Gamma UCL	583.3 611		
95% Aujusieu Gamma OCL	DII		
Potential UCL to Use		Use 95% Student's-t UCL	570.8
Potential UCL to Use		Use 95% Student's-t UCL	570.
		Statistics	
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	7.9500E-4	Minimum of Log Data	-7.13

er (1908-1908) i ki merrelager (1908-1904) en er en en en en en en en en en en en en en	Jagone Helevill	(2001) 1984 (1988)   11 - 1484 (1984)   1484 (1484)   1484 (1484)   1484 (1484)   1484 (1484)   1484 (1484)	ryder dillo
Mean	0.0081	Mean of log Data	-5.689
Median		SD of log Data	-5.669 1.357
Wedian	<u> </u>	Su oi log Data	1.35/
Coefficient of Variation			
Skewness	ļ		
Grewitess	2.024		
	Relevant UC		
Normal Distribution Test	0.503	Lognormal Distribution Test	0.000
Shapiro Wilk Test Statistic	<u>l</u>	Shapiro Wilk Test Statistic	0.898
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	<b>3</b> 1
Assuming Normal Distribution		Assuming Lognormal Distribution	······································
95% Student's-t UCL	0.0172	95% H-UCL	0.083
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.022
95% Adjusted-CLT UCL	0.0207	97.5% Chebyshev (MVUE) UCL	0.028
95% Modified-t UCL	0.0179	99% Chebyshev (MVUE) UCL	0.041
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.516	Data Distribution  Data appear Gamma Distributed at 5% Significance	Level
Theta Star	0.0157		
nu star	8.249		***************************************
Approximate Chi Square Value (.05)	2.88	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	0.016
Adjusted Chi Square Value	2.141	95% Jackknife UCL	0.017
		95% Standard Bootstrap UCL	0.015
Anderson-Darling Test Statistic	0.64	95% Bootstrap-t UCL	0.049
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL	0.051
Kolmogorov-Smirnov Test Statistic	0.232	95% Percentile Bootstrap UCL	0.017
Kolmogorov-Smirnov 5% Critical Value	0.305	95% BCA Bootstrap UCL	0.018
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	0.029
		97.5% Chebyshev(Mean, Sd) UCL	0.038
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.055
95% Approximate Gamma UCL	0.0232		·
95% Adjusted Gamma UCL	0.0313		
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.023
		, ,	
esult or 1/2 SDL (molybdenum)			
	General S	latistics	
Number of Valid Samples	8	Number of Unique Samples	5
Raw Statistics		Log-transformed Statistics	
Minimum	0.055	Minimum of Log Data	-2.9
Maximum	0.6	Maximum of Log Data	-0.511
Mean	0.146	Mean of log Data	-2.382
Median	0.06	SD of log Data	0.881
SD	0.191		
Coefficient of Variation	1.312		
Skewness	2.461		

	Relevant UC	L Statistics	
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.569	Shapiro Wilk Test Statistic	0.67
Shapiro Wilk Critical Value	1	Shapiro Wilk Critical Value	0.8
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	***************************************
95% Student's-t UCL	0.274	95% H-UCL	0.39
95% UCLs (Adjusted for Skewness)	J 0.274	95% Chebyshev (MVUE) UCL	0.30
95% Adjusted-CLT UCL	. 0.32	97.5% Chebyshev (MVUE) UCL	0.3
95% Modified-t UCL	.)	99% Chebyshev (MVUE) UCL	0.5
33 % Mounted Coc	0.200	3370 Chebyshev (NivoL) CCL	0.0
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.857	Data do not follow a Discernable Distribution (0.05)	<u> </u>
Theta Star			
nu star		PPP VIPP AT PRINTED TO A PRINTE	
Approximate Chi Square Value (.05)	1	Nonparametric Statistics	
Adjusted Level of Significance	<u> </u>	95% CLT UCL	0.2
Adjusted Chi Square Value		95% Jackknife UCL	0.2
Adjusted of the option value	0.102	95% Standard Bootstrap UCL	0.2
Anderson-Darling Test Statistic	1.46	95% Bootstrap-t UCL	3.2
Anderson-Darling 5% Critical Value	<u>(</u>	95% Hall's Bootstrap UCL	2.4
Kolmogorov-Smirnov Test Statistic	1 1	95% Percentile Bootstrap UCL	0.2
Kolmogorov-Smirnov 5% Critical Value	1	95% BCA Bootstrap UCL	0.2
Data not Gamma Distributed at 5% Significance L	!	95% Chebyshev(Mean, Sd) UCL	0.4
Data not Gamma Distributed at 3% Significance E	.evei	97.5% Chebyshev(Mean, Sd) UCL	0.5
Assuming Gamma Distribution	<u> </u>	99% Chebyshev(Mean, Sd) UCL	0.8
95% Approximate Gamma UCL	0.313	39% Chebyshev(Mean, Su) OCL	υ.c
95% Approximate Gamma OCL 95% Adjusted Gamma UCL	L		
95% Adjusted Gamma OCL	0.387		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.4
sult or 1/2 SDL (nickel)			
	General S		
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	ne shanner of Farmer
Minimum	12.3	Minimum of Log Data	2.5
Maximum	20.6	Maximum of Log Data	3.0
Mean	16.33	Mean of log Data	2.7
Median	16.65	SD of log Data	0.1
SD	3.09		**********
Coefficient of Variation	0.189		
Skewness			
	Relevant UCI	_ Statistics	
Normal Distribution Test		Lognormal Distribution Test	
	3	gironnai piesipulluli 1631	
Shapiro Wilk Test Statistic	0.928	Shapiro Wilk Test Statistic	0.9

Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Leve	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	18.4	95% H-UCL	18.87
95% UCLs (Adjusted for Skewness)	<u> </u>	95% Chebyshev (MVUE) UCL	21.2
95% Adjusted-CLT UCL	18.1	97.5% Chebyshev (MVUE) UCL	23.31
95% Modified-t UCL	18.39	99% Chebyshev (MVUE) UCL	27.46
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	19.56	Data appear Normal at 5% Significance Level	
Theta Star		Dua appear Normal at 5% organicalities activities	·
nu star			
Approximate Chi Square Value (.05)	272.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	18.12
Adjusted Chi Square Value			18.4
Adjusted Chi Square Value	263.5	95% Jackknife UCL	
		95% Standard Bootstrap UCL	18.04
Anderson-Darling Test Statistic	0.362	95% Bootstrap-t UCL	18.49
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	17.89
Kolmogorov-Smirnov Test Statistic	0.218	95% Percentile Bootstrap UCL	17.96
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	17.91
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	21.09
		97.5% Chebyshev(Mean, Sd) UCL	23.15
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	27.2
95% Approximate Gamma UCL	18.72		
95% Adjusted Gamma UCL	19.39		****************
Potential UCL to Use		Use 95% Student's-t UCL	18.4
Potential UCL to Use esult or 1/2 SDL (pyrene)		Use 95% Student's-t UCL	18.4
esult or 1/2 SDL (pyrene)	General Stat	tistics	18.4
	General Stat		18.4
esult or 1/2 SDL (pyrene)		tistics	
esult or 1/2 SDL (pyrene)  Number of Valid Samples	8	tistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	
esult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics	8	tistics  Number of Unique Samples  Log-transformed Statistics	6
Pesult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics  Minimum	0.009	tistics  Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	6 -4.711
Pasult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum	0.009	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	-4.711 -3.631
Pesult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean	0.009 0.0265 0.0147	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-4.711 -3.631 -4.32
Pasult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median	0.009 0.0265 0.0147 0.0105	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-4.711 -3.631 -4.32
Pesult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD	0.009 0.0265 0.0147 0.0105 0.0073	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	-4.711 -3.631 -4.32
Pasult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.009 0.0265 0.0147 0.0105 0.0073	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-4.711 -3.631 -4.32
Pasult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.009 0.0265 0.0147 0.0105 0.0073 0.497 0.806	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-4.711 -3.631 -4.32
Pasult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	0.009 0.0265 0.0147 0.0105 0.0073 0.497 0.806	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	-4.711 -3.631 -4.32
Pesult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test	0.009 0.0265 0.0147 0.0105 0.0073 0.497 0.806	Log-transformed Statistics  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test	-4.711 -3.631 -4.32 0.46
Pesult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic	0.009 0.0265 0.0147 0.0105 0.0073 0.497 0.806	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test  Shapiro Wilk Test Statistic	-4.71 <sup>-</sup> -3.63 <sup>-</sup> -4.32 -4.32 -4.32
Pasult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Normal at 5% Significance Level	0.009 0.0265 0.0147 0.0105 0.0073 0.497 0.806	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SLognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data not Lognormal at 5% Significance Level	-4.711 -3.631 -4.32 0.46
Pasult or 1/2 SDL (pyrene)  Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	0.009 0.0265 0.0147 0.0105 0.0073 0.497 0.806	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data	-4.71 <sup>-</sup> -3.63 <sup>-</sup> -4.32 -4.32 -4.32

95% Adjusted-CLT UCL	0.0197	97.5% Chebyshev (MVUE) UCL	0.029
95% Modified-t UCL	0.0197	99% Chebyshev (MVUE) UCL	0.03
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.283	Data Follow Appr. Gamma Distribution at 5% Significance	ce Level
Theta Star	0.0044	7.	***************************************
nu star	52.53		
Approximate Chi Square Value (.05)	36.89	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL)	0.019
Adjusted Chi Square Value	33.6	95% Jackknife UCL	0.019
		95% Standard Bootstrap UCL	0.018
Anderson-Darling Test Statistic	0.881	95% Bootstrap-t UCL	0.02
Anderson-Darling 5% Critical Value	0.719	95% Hall's Bootstrap UCL	0.01
Kolmogorov-Smirnov Test Statistic	0.279	95% Percentile Bootstrap UCL	0.01
Kolmogorov-Smirnov 5% Critical Value	0.295	95% BCA Bootstrap UCL	0.019
ata follow Appr. Gamma Distribution at 5% Significan	ce Level	95% Chebyshev(Mean, Sd) UCL	0.02
		97.5% Chebyshev(Mean, Sd) UCL	0.03
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.04
95% Approximate Gamma UCL	0.021		
95% Adjusted Gamma UCL	0.023		10. 10. 10. 10. 10. 10. 10. 10. 10. 10.
Potential UCL to Use		Use 95% Approximate Gamma UCL	0.02
ult or 1/2 SDL (strontium)			
	General S		
Number of Valid Samples	General S	Statistics  Number of Unique Samples	8
			8
Number of Valid Samples		Number of Unique Samples	
Number of Valid Samples Raw Statistics	8	Number of Unique Samples  Log-transformed Statistics	4.14
Number of Valid Samples  Raw Statistics  Minimum	63.3	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data	4.148 5.198
Number of Valid Samples  Raw Statistics  Minimum  Maximum	63.3	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data	4.14 5.19
Raw Statistics  Minimum  Maximum  Mean  Median	63.3 181 103.6	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	4.14 5.19 4.57
Raw Statistics  Minimum  Maximum  Mean  Median	63.3 181 103.6 89.45	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	4.14 5.19 4.57
Raw Statistics  Minimum  Maximum  Mean  Median	63.3 181 103.6 89.45 41.82	Number of Unique Samples  Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data	4.14 5.19 4.57
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	8 63.3 181 103.6 89.45 41.82 0.404	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	4.14 5.19 4.57
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	63.3 181 103.6 89.45 41.82 0.404	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	4.148 5.198 4.575
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness	63.3 181 103.6 89.45 41.82 0.404	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data	4.148 5.198 4.578
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness	8   63.3   181   103.6   89.45   41.82   0.404   1   Relevant UC	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test	4.14i 5.19i 4.57i 0.38
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic	63.3 181 103.6 89.45 41.82 0.404 1	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic	4.144 5.194 4.579 0.38 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value	63.3 181 103.6 89.45 41.82 0.404 1	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Critical Value	4.14 5.19 4.57 0.38 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level	63.3 181 103.6 89.45 41.82 0.404 1	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	4.144 5.194 4.579 0.38 0.93
Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution	8 63.3 181 103.6 89.45 41.82 0.404 1 1 Relevant UC 0.889 0.818	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level	4.144 5.196 4.579 0.38 0.93
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL	8 63.3 181 103.6 89.45 41.82 0.404 1 1 Relevant UC 0.889 0.818	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL	4.14 5.19 4.57 0.38 0.93 0.81
Number of Valid Samples  Raw Statistics  Minimum  Maximum  Mean  Median  SD  Coefficient of Variation  Skewness  F  Normal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Normal at 5% Significance Level  Assuming Normal Distribution  95% Student's-t UCL  95% UCLs (Adjusted for Skewness)	8 63.3 181 103.6 89.45 41.82 0.404 1 1 Relevant UC 0.889 0.818	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  SD of log Data  SD of log Data  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	4.14 5.19 4.57 0.38 0.93 0.81
Raw Statistics  Minimum  Maximum  Median  SD  Coefficient of Variation Skewness  F  Normal Distribution Test Shapiro Wilk Test Statistic Shapiro Wilk Critical Value Data appear Normal at 5% Significance Level  Assuming Normal Distribution 95% Student's-t UCL 95% UCLs (Adjusted for Skewness)	8 63.3 181 103.6 89.45 41.82 0.404 1 1 Relevant UC 0.889 0.818	Log-transformed Statistics  Minimum of Log Data  Maximum of Log Data  Mean of log Data  SD of log Data  SD of log Data  L Statistics  Lognormal Distribution Test  Shapiro Wilk Test Statistic  Shapiro Wilk Critical Value  Data appear Lognormal at 5% Significance Level  Assuming Lognormal Distribution  95% H-UCL  95% Chebyshev (MVUE) UCL	0.93 0.81 0.81 142.7 164.1

	Primaint, Fakin	Programs Assess Free Constant of Manager Services of Free Constant Assess Programs of Free Constant	7 <del>- 7</del> 50.383
Theta Star	20.94		
nu star	ļ		
Approximate Chi Square Value (.05)		Nonparametric Statistics	
Adjusted Level of Significance	0.0195		127.9
Adjusted Chi Square Value	1	95% Jackknife UCL	131.6
		95% Standard Bootstrap UCL	126.2
Anderson-Darling Test Statistic	0.349	95% Bootstrap-t UCL	145.3
Anderson-Darling 5% Critical Value	<u> </u>	95% Hall's Bootstrap UCL	138.1
Kolmogorov-Smirnov Test Statistic		95% Percentile Bootstrap UCL	127.7
Kolmogorov-Smirnov 5% Critical Value	0.295	95% BCA Bootstrap UCL	132.3
Data appear Gamma Distributed at 5% Significance		95% Chebyshev(Mean, Sd) UCL	168.1
		97.5% Chebyshev(Mean, Sd) UCL	195.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	250.7
95% Approximate Gamma UCL	137.5		
95% Adjusted Gamma UCL	148		
	1.0		
Potential UCL to Use		Use 95% Student's-t UCL	131.6
esult or 1/2 SDL (titanium)			
	General	Statistics	
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	19.1	Minimum of Log Data	2.95
Maximum	40.5	Maximum of Log Data	3.70
Mean	30	Mean of log Data	3.36
Median	32.65	SD of log Data	0.28
SD	8.035		
Coefficient of Variation	0.268		
Skewness	-0.263		
	Relevant UC	CL Statistics	***************************************
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.903	Shapiro Wilk Test Statistic	0.88
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.81
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution	**************************************	Assuming Lognormal Distribution	
95% Student's-t UCL	35.38	95% H-UCL	37.72
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	43.33
95% Adjusted-CLT UCL	34.39	97.5% Chebyshev (MVUE) UCL	49.08
95% Modified-t UCL	35.34	99% Chebyshev (MVUE) UCL	60.37
Gamma Distribution Test	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Data Distribution	nafa et san yan har ak kalamaya daya a
k star (bias corrected)	9.311	Data appear Normal at 5% Significance Level	
Theta Star	3.222		
nu star	149		
Approximate Chi Square Value (.05)	121.8	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	34.67
Adjusted Chi Square Value	115.5	95% Jackknife UCL	35.38

		95% Standard Bootstrap UCL	34.35
Anderson-Darling Test Statistic	0.516	95% Bootstrap-t UCL	35.38
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	33.81
Kolmogorov-Smirnov Test Statistic	0.284	95% Percentile Bootstrap UCL	34.31
Kolmogorov-Smirnov 5% Critical Value	0.294	95% BCA Bootstrap UCL	34.31
Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	42.38
		97.5% Chebyshev(Mean, Sd) UCL	47.74
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	58.27
95% Approximate Gamma UCL	36.7		
95% Adjusted Gamma UCL	38.68		
Potential UCL to Use		Use 95% Student's-t UCL	35.38
Result or 1/2 SDL (vanadium)			
	General		~~~~
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	16.8	Minimum of Log Data	2.821
Maximum	27.4	Maximum of Log Data	3.311
Mean	21.83	Mean of log Data	3.067
Median	21.8	SD of log Data	0.19
SD	4.107		
Coefficient of Variation	0.188		
Skewness	0.0796		
	Relevant I IC	CL Statistics	
Normal Distribution Test	Cicvani OC	Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.911	Shapiro Wilk Test Statistic	0.908
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data appear Normal at 5% Significance Level	0.010	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	24.58	95% H-UCL	25.16
95% UCLs (Adjusted for Skewness)	24.50	95% Chebyshev (MVUE) UCL	28.24
	04.06	97.5% Chebyshev (MVUE) UCL	31.02
95% Adjusted-CLT UCL	24.26		
95% Modified-t UCL	24.58	99% Chebyshev (MVUE) UCL	36.47
Gamma Distribution Test	orange prompted and the state of the state o	Data Distribution	ara ann maithe a prùisean a saoinn ma
k star (bias corrected)	20.05	Data appear Normal at 5% Significance Level	
. Theta Star	1.089		and a server that he able the best of the
nu star	320.8		
Approximate Chi Square Value (.05)	280.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	24.21
Adjusted Chi Square Value	270.7	95% Jackknife UCL	24.58
, ,		95% Standard Bootstrap UCL	24.07
Anderson-Darling Test Statistic	0.392	95% Bootstrap-t UCL	24.63
Anderson-Darling 5% Critical Value	0.716	95% Hall's Bootstrap UCL	23.78
Kolmogorov-Smirnov Test Statistic	0.222	95% Percentile Bootstrap UCL	24.1
Kolmogorov-Smirnov 76st Statistic	0.294	95% BCA Bootstrap UCL	24.23
Rollingolov-offilinov 5% Critical Value	U.Z94	93% BCA BOOISHAP UCL	۷4،۷۵

Data appear Gamma Distributed at 5% Significance	Level	95% Chebyshev(Mean, Sd) UCL	28.
		97.5% Chebyshev(Mean, Sd) UCL	30.8
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	36.2
95% Approximate Gamma UCL	24.98		
95% Adjusted Gamma UCL	25.87		
Potential UCL to Use		Use 95% Student's-t UCL	24.5
			-
sult or 1/2 SDL (zinc)			
	General S		
Number of Valid Samples	8	Number of Unique Samples	8
Raw Statistics		Log-transformed Statistics	
Minimum	38.2	Minimum of Log Data	3.
¬ : Maximum	999	Maximum of Log Data	6.9
Mean	332.3	Mean of log Data	4.
Median	55.65	SD of log Data	1.4
SD.	407.7		
Coefficient of Variation	1.227		
Skewness	0.879		
	Relevant UC	CL Statistics	
Normal Distribution Test		Lognormal Distribution Test	***************************************
Shapiro Wilk Test Statistic	0.737	Shapiro Wilk Test Statistic	0.
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	605.4	95% H-UCL	6104
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1069
95% Adjusted-CLT UCL	617.3	97.5% Chebyshev (MVUE) UCL	1392
95% Modified-t UCL	612.9	99% Chebyshev (MVUE) UCL	2027
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.5	Data do not follow a Discernable Distribution (0.0	5)
Theta Star	664.4		
nu star	8.002		
Approximate Chi Square Value (.05)	2.736	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	95% CLT UCL	569.
Adjusted Chi Square Value	2.021	95% Jackknife UCL	605.
-		95% Standard Bootstrap UCL	557.
Anderson-Darling Test Statistic	1.087	95% Bootstrap-t UCL	766.
Anderson-Darling 5% Critical Value	0.751	95% Hali's Bootstrap UCL	474.
Kolmogorov-Smirnov Test Statistic	0.365	95% Percentile Bootstrap UCL	570.
Kolmogorov-Smirnov 5% Critical Value	0.306	95% BCA Bootstrap UCL	594.
Data not Gamma Distributed at 5% Significance L	]	95% Chebyshev(Mean, Sd) UCL	960.
		97.5% Chebyshev(Mean, Sd) UCL	1233
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1767
95% Approximate Gamma UCL	971.8		
95% Adjusted Gamma UCL	1316		

Potential UCL to Use	Use 99% Chebyshev (Меал, Sd) UCL 1767	
Recommended	UCL exceed	s the maximum observation

ANTIMONY - SOUTH OF MARLIN SURFACE SOIL								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
Compound	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples							
Antimony	1.118	1.228	83	0.953	0.878	10		

Calculated Difference = 0.165 Standard Error of the Difference = 0.407177285

Degree of Freedom = 91

t = 0.405228892

p = 0.3445 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = No background mean is not statistically less than site mean

ARSENIC - SOUTH OF MARLIN SURFACE SOIL									
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples								
Arsenic	3.735	4.012	83	3.438	1.792	10			

Calculated Difference = 0.297

Standard Error of the Difference = 1.126036589

Degree of Freedom = 91

t = 0.263756971

0.3963

BARIUM - SOUTH OF MARLIN SURFACE SOIL									
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background									
	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples								
Barium	345.2	349	83	333.1	288.1	10			

Calculated Difference = 12.1

Standard Error of the Difference = 124.3580544

Degree of Freedom = 91

t = 0.097299689

0.4614

CADMIUM - SOUTH OF MARLIN SURFACE SOIL									
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background									
•	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples								
Cadmium	0.464	1.141	83	0.0311	0.0398	10			

Calculated Difference = 0.4329 Standard Error of the Difference = 0.277019204

Degree of Freedom = 91

t = 1.562707545

0.0608

CHROMIUM - SOUTH OF MARLIN SURFACE SOIL								
Compound  Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background Standard Deviation Samples Conc. Mean Standard Deviation Samples								
Chromium	16.08	15.7	83	15.2	3.02	10		

Calculated Difference = 0.88

Standard Error of the Difference = 3.925742193

Degree of Freedom = 91

t = 0.224161434

0.4116

COPPER - SOUTH OF MARLIN SURFACE SOIL								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
Compound	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples							
Copper	27.98	35.35	83	12.12	3.955	10		

Calculated Difference = 15.86 Standard Error of the Difference = 8.664375822

> Degree of Freedom = 91

t = 1.830483849

0.0353

LEAD - SOUTH OF MARLIN SURFACE SOIL								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
Compound	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples							
Lead	69.61	112.8	83	13.43	1.547	10		

Calculated Difference = 56.18

Standard Error of the Difference = 27.36239203

Degree of Freedom = 91

t = 2.053183068

0.0215

LITHIUM - SOUTH OF MARLIN SURFACE SOIL								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
	l Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples		
Lithium	7.856	5.715	83	21.14	5.166	10		

Calculated Difference = 13.284 Standard Error of the Difference = 2.142429492

> Degree of Freedom = 91

t = 6.200437423

0.00 p =

MANGANESE - SOUTH OF MARLIN SURFACE SOIL								
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background								
Joinpouna	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples							
Manganese	257.4	129.3	83	377.4	93.75	10		

Calculated Difference = 120

Standard Error of the Difference = 43.15491673

Degree of Freedom = 91

t = 2.780679679

0.0033

MERCURY - SOUTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Mercury	0.0227	0.0752	83	0.0213	0.00479	10	

Calculated Difference = 0.0014 Standard Error of the Difference = 0.01830147 Degree of Freedom = 91

t = 0.076496585

0.4698

MOLYBDENUM - SOUTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Molybdenum	1.306	1.588	83	0.522	0.0739	10	

Calculated Difference = 0.784 Standard Error of the Difference = 0.385854899

> Degree of Freedom = 91

t = 2.031851873

0.0225

ZINC - SOUTH OF MARLIN SURFACE SOIL						
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background						
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Zinc	601.2	672.8	83	247	364.6	10

Calculated Difference = 354.2

Standard Error of the Difference = 199.8008143

Degree of Freedom = 91

t = 1.772765547

0.0399

ANTIMONY - SOUTH OF MARLIN SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Antimony	1.023	1.14	166	0.953	0.878	10	

Calculated Difference = 0.07

Standard Error of the Difference = 0.39183601

Degree of Freedom = 174

t = 0.178646164

p = 0.4292 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = No background mean is not statistically less than site mean

ARSENIC - SOUTH OF MARLIN SOIL							
Lompound						Number of Background	
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Arsenic	3.331	3.269	166	3.438	1.792	10	

Calculated Difference = 0.107

Standard Error of the Difference = 0.97454393

Degree of Freedom = 174

t = 0.109794948

0.4563

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

BARIUM - SOUTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Barium	237.4	274.8	166	333.1	288.1	10	

Calculated Difference = 95.7

Standard Error of the Difference = 112.8814519

Degree of Freedom = 174

t = 0.847792072

0.1989

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

CADMIUM - SOUTH OF MARLIN SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Cadmium	0.335	0.859	166	0.0311	0.0398	10	

Calculated Difference = 0.3039 Standard Error of the Difference = 0.208717917

> Degree of Freedom = 174

t = 1.456032165

0.0736

CHROMIUM - SOUTH OF MARLIN SOIL							
Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples	
Chromium	13.53	12.49	166	15.2	3.02	10	

Calculated Difference = 1.67

Standard Error of the Difference = 3.176242508

Degree of Freedom = 174

t = 0.525778493

0.2998

COPPER - SOUTH OF MARLIN SOIL						
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Copper	24.26	46.76	166	12.12	3.955	10

Calculated Difference = 12.14

Standard Error of the Difference = 11.40971991

Degree of Freedom = 174

t = 1.064005085

0.1444

LEAD - SOUTH OF MARLIN SOIL						
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of						Number of Background
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Lead	53.52	104.2	166	13.43	1.547	10

Calculated Difference = 40.09

Standard Error of the Difference = 25.27694655

Degree of Freedom = 174

t = 1.586030177

0.0573

LITHIUM - SOUTH OF MARLIN SOIL							
						Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Lithium	10.03	6.299	166	21.14	5.166	10	

Calculated Difference = 11.11

Standard Error of the Difference = 2.236676187

Degree of Freedom = 174

t = 4.967191972

0.00 p =

MANGANESE - SOUTH OF MARLIN SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Manganese	261.2	127.4	166	377.4	93.75	10	

Calculated Difference = 116.2

Standard Error of the Difference = 42.82121949

Degree of Freedom = 174

t = 2.713607912

0.0037

MERCURY - SOUTH OF MARLIN SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Mercury	0.0262	0.0941	166	0.0213	0.00479	10	

Calculated Difference = 0.0049 Standard Error of the Difference = 0.022872813

Degree of Freedom = 174

t = 0.214228129

0.4153

MOLYBDENUM - SOUTH OF MARLIN SOIL							
Lompound						Number of Background	
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Molybdenum	0.89	1.488	166	0.522	0.0739	10	

Standard Error of the Difference = 0.361648843

Degree of Freedom = 174

t = 1.017561668

0.1550

ZINC - SOUTH OF MARLIN SOIL						
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background
Joinpound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Zinc	433.8	786.8	166	247	364.6	10

Calculated Difference = 186.8 Standard Error of the Difference = 222.9535182

Degree of Freedom = 174

0.8378428

0.2016 p =

ANTIMONY - NORTH OF MARLIN SURFACE SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background Conc.							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Antimony	1.744	2.146	18	0.953	0.878	10	

Standard Error of the Difference = 0.589906214 Degree of Freedom = 26

t = 1.340891114

0.0958

ARSENIC - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Arsenic	2.522	1.164	18	3.438	1.792	10	

Standard Error of the Difference = 0.633108336

Degree of Freedom = 26

t = 1.446829789

0.0799

BARIUM - NORTH OF MARLIN SURFACE SOIL							
L Compound						Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Barium	145.2	115.8	18	333.1	288.1	10	

Standard Error of the Difference = 95.33605484

Degree of Freedom = 26

t = 1.970922756

0.0297

CADMIUM - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Cadmium	0.207	0.252	18	0.0311	0.0398	10	

Calculated Difference = 0.1759 Standard Error of the Difference = 0.06240139

> Degree of Freedom = 26

t = 2.818847487

0.0045 p =

CHROMIUM - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
•	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Chromium	20.26	27.58	18	15.2	3.02	10	

Standard Error of the Difference = 6.7569619 Degree of Freedom = 26

t = 0.748857264

0.2303

COPPER - NORTH OF MARLIN SURFACE SOIL						
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background						
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Copper	24.13	44.66	18	12.12	3.955	10

Standard Error of the Difference = 10.90360718

Degree of Freedom = 26

t = 1.101470348

0.1405

LEAD - NORTH OF MARLIN SURFACE SOIL						
						Number of Background
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Lead	57.7	111.1	18	13.43	1.547	10

Standard Error of the Difference = 26.95014837

Degree of Freedom = 26

t = 1.64266257

0.0562

LITHIUM - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Lithium	16.57	5.136	18	21.14	5.166	10	

Standard Error of the Difference = 2.054368963

Degree of Freedom = 26

t = 2.224527377

0.0175

MANGANESE - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Manganese	369.5	247.7	18	377.4	93.75	10	

Standard Error of the Difference = 66.99284257

Degree of Freedom = 26

t = 0.117923045

0.4535

MERCURY - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Sam						Samples	
Mercury	0.0126	0.0163	18	0.0213	0.00479	10	

Calculated Difference = 0.0087 Standard Error of the Difference = 0.004233584

Degree of Freedom = 26

t = 2.054996426

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is statistically less than background mean 0.0250

Data sets significantly different = Yes

MOLYBDENUM - NORTH OF MARLIN SURFACE SOIL							
Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples	
Molybdenum	0.949	2.5	18	0.522	0.0739	10	

Standard Error of the Difference = 0.606789238 Degree of Freedom = 26

t = 0.703703977

0.2439

ZINC - NORTH OF MARLIN SURFACE SOIL								
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Backgroun							
·	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples		
Zinc	418.4	1308	18	247	364.6	10		

Standard Error of the Difference = 337.5387012

Degree of Freedom = 26

t = 0.507793623

0.3080

ANTIMONY - NORTH OF MARLIN SOIL								
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples		
Antimony	1.416	1.779	36	0.953	0.878	10		

Standard Error of the Difference = 0.513084318

Degree of Freedom = 44

t = 0.902385794

0.1859

ARSENIC - NORTH OF MARLIN SOIL							
Compound  Site Conc.  Mean  Site Conc.  Site Conc.  Site Conc.  Site Conc.  Number of Site  Background  Background Conc.  Number of Background  Samples  Conc. Mean  Standard Deviation  Samples							
•	Mean	Conc. Mean	Standard Deviation	Samples			
Arsenic	2.573	1.369	36	3.438	1.792	10	

Standard Error of the Difference = 0.656788524

Degree of Freedom = 44

t = 1.317014486

0.0973

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

BARIUM - NORTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						Samples	
Barium	142.1	95.9	36	333.1	288.1	10	

Standard Error of the Difference = 94.02738869

Degree of Freedom = 44

t = 2.031323029

0.0242 p =

CADMIUM - NORTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
·	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						
Cadmium	0.193	0.239	36	0.0311	0.0398	10	

Calculated Difference = 0.1619 Standard Error of the Difference = 0.059316632

Degree of Freedom = 44

t = 2.729419974

0.0045

CHROMIUM - NORTH OF MARLIN SOIL							
Compound  Site Conc.  Site Conc.  Site Conc.  Number of Site  Background  Background Conc.  Number of Background  Compound  Compound  Standard Background  Compound  Standard Background							
	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						
Chromium	17.17	19.6	36	15.2	3.02	10	

Standard Error of the Difference = 4.848678898

Degree of Freedom = 44

t = 0.406296239

0.3432

COPPER - NORTH OF MARLIN SOIL							
Compound  Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background Standard Deviation Samples Conc. Mean							
MeanStandard DeviationSamplesConc. MeanStandard DeviationSamplesCopper18.731.93612.123.95510							

Standard Error of the Difference = 7.837321881

Degree of Freedom = 44

t = 0.83957251

0.2028

LEAD - NORTH OF MARLIN SOIL						
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Backgroun						
Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						Samples
Lead	37.8	80.99	36	13.43	1.547	10

Calculated Difference = 24.37 Standard Error of the Difference = 19.6490511

Degree of Freedom = 44

t = 1.240263455

0.1108

LITHIUM - NORTH OF MARLIN SOIL							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						Samples	
Lithium	18.84	5.952	36	21.14	5.166	10	

Standard Error of the Difference = 2.180058677

Degree of Freedom = 44

t = 1.055017475

0.1486

MANGANESE - NORTH OF MARLIN SOIL									
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Backgrou									
•	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples								
Manganese									

Standard Error of the Difference = 57.70014591

Degree of Freedom = 44

t = 0.526861753

0.3005

MERCURY - NORTH OF MARLIN SOIL						
Compound Site Conc. Site Conc. Number of Site Background Background						Number of Background
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples
Mercury	0.0094	0.0124	36	0.0213	0.00479	10

Calculated Difference = 0.0119 Standard Error of the Difference = 0.00336736

Degree of Freedom = 44

t = 3.533925295

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is statistically less than background mean 0.0005 p =

Data sets significantly different = Yes

MOLYBDENUM - NORTH OF MARLIN SOIL							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
o mpound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Molybdenum	0.586	1.788	36	0.522	0.0739	10	

Standard Error of the Difference = 0.434282915

Degree of Freedom = 44

t = 0.147369371

0.4417

ZINC - NORTH OF MARLIN SOIL							
Compound  Site Conc.  Site Conc.  Site Conc.  Number of Site  Background  Background Conc.  Number of Background  Compound  Compound  Standard Background  Compound  Standard Background  Standard Background  Standard Background							
MeanStandard DeviationSamplesConc. MeanStandard DeviationSamplesZinc242.5929.436247364.610							

Standard Error of the Difference = 253.1879948

Degree of Freedom = 44

t = 0.017773355

0.4929

ZINC - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Zinc	45.36	19.88	16	36.04	13.68	9	

Standard Error of the Difference = 6.477819531

Degree of Freedom = 23

t = 1.438755735

0.0818

4,4'-DDT - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
4,4'-DDT	0.00041103	0.0007962	17	0.0001555	0.00015569	9	

Calculated Difference = 0.00025553 Standard Error of the Difference = 0.000199284

> Degree of Freedom = 24

> > t = 1.28223903

p = 0.106

ALUMINUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
- Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Aluminum	6854	2346	16	12213	6892	9	

Calculated Difference = 5359
Standard Error of the Difference = 2252.49071

Degree of Freedom = 23

t = 2.379144107

p = 0.013 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = Yes site soil mean is statistically less than background mean

ANTIMONY - INTRACOASTAL WATERWAY SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Back							
·	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Antimony	2.245	1.751	16	4.023	2.215	9	

Standard Error of the Difference = 0.819130942

Degree of Freedom = 23

t = 2.170593136

p = 0.0203 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = Yes site soil mean is statistically less than background mean

ARSENIC - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Arsenic	4.026	1.4	16	5.813	3.107	9	

Standard Error of the Difference = 1.039537887

Degree of Freedom = 23

t = 1.719033066

p = 0.0495 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = Yes site soil mean is statistically less than background mean

BARIUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Barium	215.3	59.65	16	209.7	47.73	9	

Standard Error of the Difference = 20.90733397

Degree of Freedom = 23

t = 0.267848594

0.3956 p =

BENZO(B)FLUORANTHENE - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Benzo(b)fluoranthene	0.1	0.157	16	0.0087	0.0106	9	

Calculated Difference = 0.0913 Standard Error of the Difference = 0.038225347

> Degree of Freedom = 23

> > t = 2.388467508

p = 0.5

BERYLLIUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
- Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Beryllium	0.463	0.149	16	0.766	0.403	9	

Standard Error of the Difference = 0.13246449

Degree of Freedom = 23

t = 2.287405473

0.0159 p =

calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = site soil mean is statistically less than background mean Yes

BORON - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Boron	12.04	9.92	16	27.64	12.82	9	

Calculated Difference = 15.6 Standard Error of the Difference = 4.714218044

Degree of Freedom = 23

t = 3.30913841

0.0015 calculated at www.stat.tamu.edu/~west/applets/tdemo.html p =

Data sets significantly different = site soil mean is statistically less than background mean Yes

COBALT - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Cobalt	4.385	1.131	16	6.698	3.165	9	

Standard Error of the Difference = 1.037770333

Degree of Freedom = 23

t = 2.228816845

0.0179 p =

calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = site soil mean is statistically less than background mean Yes

COPPER - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Sompound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Copper	7.112	2.997	16	8.138	5.165	9	

Standard Error of the Difference = 1.787757246

Degree of Freedom = 23

t = 0.573903421

0.2858 p =

calculated at www.stat.tamu.edu/~west/applets/tdemo.html Data sets significantly different = site soil mean is not statistically less than background mean No

IRON - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Iron	13352	5546	16	16496	8097	9	

Standard Error of the Difference = 2892.307356

Degree of Freedom = 23

t = 1.087021403

p = 0.1441 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = No site soil mean is not statistically less than background mean

LEAD - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Lead	11.56	7.161	16	9.587	3.602	9	

Standard Error of the Difference = 2.076994545

Degree of Freedom = 23

t = 0.949930275

p = 0.1760

LITHIUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Lithium	10.53	3.559	16	21.4	14.41	9	

Standard Error of the Difference = 4.637876359

Degree of Freedom = 23

t = 2.343745102

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is statistically less than background mean 0.0141

Data sets significantly different = Yes

MANGANESE - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Manganese	283.3	87.59	16	330.7	88.99	9	

Standard Error of the Difference = 35.25927685

Degree of Freedom = 23

t = 1.34432706

0.0960

MERCURY - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Mercury	0.0201	0.0073	16	0.0176	0.0132	9	

Standard Error of the Difference = 0.004534171

Degree of Freedom = 23

t = 0.551368717

0.5000

MOLYBDENUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Molybdenum	0.667	1.358	16	0.241	0.0675	9	

Standard Error of the Difference = 0.330054329

Degree of Freedom = 23

t = 1.290696598

0.1048

NICKEL - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Nickel	9.589	2.741	16	14.91	8.111	9	

Standard Error of the Difference = 2.649675082

Degree of Freedom = 23

t = 2.008170751

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean 0.5000

Data sets significantly different = No

STRONTIUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Strontium	44.86	14.43	16	59.17	22.06	9	

Standard Error of the Difference = 7.804670623

Degree of Freedom = 23

t = 1.833517478

0.0398

TITANIUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Titanium	25.58	5.051	16	31.79	10.49	9	

Standard Error of the Difference = 3.536205768

Degree of Freedom = 23

t = 1.756119527

0.0462

VANADIUM - INTRACOASTAL WATERWAY SEDIMENT							
Compound	Site Conc.	Site Conc.	Number of Site	Background	Background Conc.	Number of Background	
Compound	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Vanadium	13.86	3.523	16	20.21	9.135	9	

Standard Error of the Difference = 3.012459534

Degree of Freedom = 23

t = 2.107912133

0.0231

ANTIMONY - WETLAND SEDIMENT													
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background												
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples							
Antimony	1.154	0.724	47	0.953									

Standard Error of the Difference = 0.32851527

Degree of Freedom = 55

t = 0.611843706

0.2716

ARSENIC - WETLAND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Back							
Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						Samples	
Arsenic	2.534	2.465	48	3.438	1.792	10	

Standard Error of the Difference = 0.823742314

Degree of Freedom = 56

t = 1.097430573

0.1387

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

BARIUM - WETLAND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Back							
Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						Samples	
Barium	151.7	136.5	48	333.1	288.1	10	

Standard Error of the Difference = 96.93387285

Degree of Freedom = 56

t = 1.871378855

0.0333

CADMIUM - WETLAND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
•	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						
Cadmium	0.103	0.146	48	0.0311	0.0398	10	

Calculated Difference = 0.0719 Standard Error of the Difference = 0.037580399

> Degree of Freedom = 56

t = 1.913231441

0.0304 p =

CHROMIUM - WETLAND SEDIMENT								
Compound	Compound  Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background Standard Deviation Samples Conc. Mean Standard Deviation Samples							
Chromium	<b>Mean</b> 15.07	5.536	Samples 48	15.2	3.02	Samples 10		
Chromium	15.07	5.536	40	15.2	3.02	10		

Standard Error of the Difference = 1.647671726

Degree of Freedom = 56

t = 0.078899211

0.4687

COPPER - WETLAND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						
Copper	14.49	8.49	48	12.12	3.955	10	

Standard Error of the Difference = 2.409192475

Degree of Freedom = 56

t = 0.983732111

0.1647

LEAD - WETLAND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						Samples	
Lead	25.36	34.13	48	13.43	1.547	10	

Standard Error of the Difference = 8.292183972

Degree of Freedom = 56

t = 1.438704211

0.0779

LITHIUM - WETLAND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						Samples	
Lithium	18.65	3.754	48	21.14	5.166	10	

Standard Error of the Difference = 1.870221145

Degree of Freedom = 56

t = 1.331393353

0.0943

MANGANESE - WETLAND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Backgro							
•	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						
Manganese	331.8	205.9	48	377.4	93.75	10	

Standard Error of the Difference = 58.07511173

Degree of Freedom = 56

t = 0.785190052

0.2178

MERCURY - WETLAND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Backgr							
Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						Samples	
Mercury	0.0199	0.0194	48	0.0213	0.00479	10	

Calculated Difference = 0.0014 Standard Error of the Difference = 0.004942998

> Degree of Freedom = 56

t = 0.283228898

0.3890

MOLYBDENUM - WETLAND SEDIMENT									
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Backgroun									
·	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples								
Molybdenum									

Standard Error of the Difference = 0.16585129

Degree of Freedom = 56

t = 0.355740374

0.3617

ZINC - WETLAND SEDIMENT							
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background						
	Mean	Standard Deviation	Samples	Conc. Mean	Standard Deviation	Samples	
Zinc	139.1	160.9	53	247	364.6	10	

Standard Error of the Difference = 121.7217613

Degree of Freedom = 61

t = 0.886447902

0.1896

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

ANTIMONY - POND SEDIMENT							
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background						
	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						
Antimony	0.795	0.618	8	0.953	0.878	10	

Standard Error of the Difference = 0.31552261

Degree of Freedom = 16

t = 0.500756506

0.3116

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean

Data sets significantly different = No

ARSENIC - POND SEDIMENT							
Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
Compound	Mean Standard Deviation Samples Conc. Mean Standard Deviation Samples						
Arsenic	1.735	2.233	8	3.438	1.792	10	

Standard Error of the Difference = 0.783860649

Degree of Freedom = 16

t = 2.172580039

0.0226

BARIUM - POND SEDIMENT								
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples							
Barium								

Standard Error of the Difference = 95.59691633

Degree of Freedom = 16

t = 1.406949148

0.0893

CADMIUM - POND SEDIMENT						
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background					
•	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples					
Cadmium	0.147	0.112	8	0.0311	0.0398	10

Calculated Difference = 0.1159 Standard Error of the Difference = 0.029938042

> Degree of Freedom = 16

t = 3.871328672

0.0007 p =

CHROMIUM - POND SEDIMENT							
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Backgroun						
	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						
Chromium							

Standard Error of the Difference = 1.470614137

Degree of Freedom = 16

t = 1.543572812

0.0711

COPPER - POND SEDIMENT							
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background						
	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						
Copper							

Standard Error of the Difference = 2.191731568

Degree of Freedom = 16

t = 1.40528158

0.0896

LEAD - POND SEDIMENT							
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background						
•	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						
Lead							

Standard Error of the Difference = 1.784545276

Degree of Freedom = 16

t = 2.303107719

0.0175

LITHIUM - POND SEDIMENT							
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background						
•	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples						
Lithium							

Standard Error of the Difference = 1.908832199

Degree of Freedom = 16

t = 1.393522176

0.0912

MANGANESE - POND SEDIMENT								
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples							
Manganese								

Standard Error of the Difference = 42.26460503

Degree of Freedom = 16

t = 2.607382701

0.0095

MOLYBDENUM - POND SEDIMENT								
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
•	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples							
Molybdenum								

Standard Error of the Difference = 0.051885086

Degree of Freedom = 16

t = 7.24678375

0.0000 p =

ZINC - POND SEDIMENT								
Compound	Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background							
- Compound	Mean   Standard Deviation   Samples   Conc. Mean   Standard Deviation   Samples							
Zinc								

Standard Error of the Difference = 151.8911495

Degree of Freedom = 16

t = 0.561586375

0.2910

## TABLE C-1 EXPOSURE POINT CONCENTATION (mg/kg) SOIL SOUTH OF MARLIN AVE.

			Statistic
Parameter	Average	95% UCL	Used
2-Methylnaphthalene	0.0698	0.341	97.5% Chebyshev
4,4-DDD	0.00766	0.0498	97.5% Chebyshev
4,4'-DDE	0.0017	0.0054	97.5% Chebyshev
4,4'-DDT	0.0037	0.0125	99% Chebyshev
Acenaphthene	0.0419	0.115	97.5% Chebyshev
Acenaphthylene	0.042	0.114	97.5% Chebyshev
Anthracene	0.0874	0.21	97.5% Chebyshev
Aroclor-1254	0.205	0.74	97.5% Chebyshev
Benzo(a)anthracene	0.268	0.859	99% Chebyshev
Benzo(a)pyrene	0.347	1.008	99% Chebyshev
Benzo(b)fluoranthene	0.466	1.256	99% Chebyshev
Benzo(g,h,i)perylene	0.251	0.545	97.5% Chebyshev
Benzo(k)fluoranthene	0.157	0.378	97.5% Chebyshev
Boron	4.811	7.387	97.5% Chebyshev
Chrysene	0.327	0.938	99% Chebyshev
Cobalt	4.144	4.407	95% Student's-t
Copper	24.26	46.92	97.5% Chebyshev
Dibenz(a,h)anthracene	0.113	0.236	97.5% Chebyshev
Dieldrin	9.01E-04	0.0021	97.5% Chebyshev
Endrin Aldehyde	0.0019	0.0055	97.5% Chebyshev
Endrin Ketone	0.0013	0.0029	97.5% Chebyshev
Fluoranthene	0.594	1.886	99% Chebyshev
Fluorene	0.0442	0.107	97.5% Chebyshev
gamma-Chlordane	6.90E-04	0.0017	97.5% Chebyshev
Indeno(1,2,3-cd)pyrene	0.368	0.761	97.5% Chebyshev
Lead	53.52	104	97.5% Chebyshev
Molybdenum	0.89	1.61	97.5% Chebyshev
Naphthalene	0.323	2.775	99% Chebyshev
Nickel	11.74	12.37	95% Student's-t
Phenanthrene	0.401	1.349	99% Chebyshev
Pyrene	0.432	1.29	99% Chebyshev
Strontium	75.61	100.6	95% Chebyshev
Titanium	25.77	32.21	95% Student's-t
Vanadium	14.4	15.17	95% Approx. Gamma
Zinc	433.8	815.2	97.5% Chebyshev
LPAH	1.0093	5.011	
HPAH	3.323	9.157	
TOTAL PAHs	4.3323	14.168	

# TABLE C-2 EXPOSURE POINT CONCENTATION (mg/kg) SURFACE SOIL SOUTH OF MARLIN AVE.

			Q
Б.,		050/ 1101	Statistic
Parameter	Average	95% UCL	Used
2-Methylnaphthalene	0.0293	0.0784	97.5% Chebyshev
4,4-DDD	7.89E-04	0.0029	97.5% Chebyshev
4,4'-DDE	0.0019	0.0074	97.5% Chebyshev
4,4'-DDT	0.0038	0.014	99% Chebyshev
Acenaphthene	0.0595	0.197	97.5% Chebyshev
Acenaphthylene	0.0382	0.113	97.5% Chebyshev
Anthracene	0.0961	0.297	97.5% Chebyshev
Aroclor-1254	0.137	0.726	97.5% Chebyshev
Benzo(a)anthracene	0.345	1.211	97.5% Chebyshev
Benzo(a)pyrene	0.457	1.457	97.5% Chebyshev
Benzo(b)fluoranthene	0.582	1.638	97.5% Chebyshev
Benzo(g,h,i)perylene	0.324	1.095	97.5% Chebyshev
Benzo(k)fluoranthene	0.24	0.651	97.5% Chebyshev
Boron	4.662	9.663	97.5% Chebyshev
Chrysene	0.409	1.322	99% Chebyshev
Cobalt	3.705	4.781	95% Chebyshev
Copper	27.98	32.45	95% H-UCL
Dibenz(a,h)anthracene	0.155	0.363	97.5% Chebyshev
Dieldrin	9.97E-04	0.003	97.5% Chebyshev
Endrin Aldehyde	0.0023	0.0084	97.5% Chebyshev
Endrin Ketone	0.0016	0.004	97.5% Chebyshev
Fluoranthene	0.799	2.656	97.5% H-UCL
Fluorene	0.0515	0.155	97.5% Chebyshev
gamma-Chlordane	8.27E-04	0.0025	97.5% Chebyshev
Indeno(1,2,3-cd)pyrene	0.47	1.115	97.5% Chebyshev
Lead	69.61	84.5	95% H-UCL
Molybdenum	1.306	1.645	95% Approx. Gamma
Naphthalene			NS
Nickel	11.64	12.54	95% Approx. Gamma
Phenanthrene	0.512	2.198	97.5% Chebyshev
Pyrene	0.533	1.366	95% H-UĆL
Strontium	70.61	101.2	95% Chebyshev
Titanium	29.8	63	95% Chebyshev
Vanadium	13.76	14.84	95% Approx. Gamma
Zinc	601.2	727.7	95% Approx. Gamma
LPAH	0.7866	3.0384	11
HPAH	4.314	12.874	
TOTAL PAHs	5.1006	15.9124	

Notes:

NS - Not sampled in surface soil.

TABLE C-3 TOXICITY VALUES

						1												
Development	Earthworm	Def	0	Deer Mouse	D-f	0	Coyote	Ref.	0	Rat Snake	D-f	0	American Robin	D-f		Red-tailed Hawk	D-4	0
Parameter 2-Methylnaphthalene	(mg/kg)	Ref.	Comments	(mg/kgBW-day)	) Ref.	Comments	(mg/kgBW-day)	Ket.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments
2 month aprintations																		
						Highest bounded NOAEL			Highest bounded						Highest bounded NOAEL			Highest bounded NOAEL
			Acute median LC50 in common cricket			for growth and reproduction lower than			NOAEL for growth and reproduction lower than			Avian TRV was used as a			for growth and reproduction lower than			for growth and reproduction lower than the
			(dose 4.3 with			the lowest bounded			the lowest bounded			surrogate for the rat snake			the lowest bounded			lowest bounded LOAEL for
			uncertainty factor of			LOAEL for reproduction,			LOAEL for reproduction,			since no TRV was found			LOAEL for reproduction,			reproduction, growth, and
4,4-DDD	0.043	EPA, 2007a	0.01)	0.147	EPA, 2007a	growth, and survival	0.147	EPA, 2007a	growth, and survival	0.227		specific for reptiles.	0.227	EPA, 2007a	growth, and survival	0.227	EPA, 2007a	survival
			Acute median LC50			Highest bounded NOAEL for growth and			Highest bounded NOAEL for growth and						Highest bounded NOAEL for growth and			Highest bounded NOAEL for growth and
			in common cricket			reproduction lower than			reproduction lower than			Avian TRV was used as a			reproduction lower than			reproduction lower than the
			(dose 4.3 with			the lowest bounded			the lowest bounded			surrogate for the rat snake			the lowest bounded			lowest bounded LOAEL for
			uncertainty factor of			LOAEL for reproduction,			LOAEL for reproduction,			since no TRV was found			LOAEL for reproduction,			reproduction, growth, and
4,4'-DDE	0.043	EPA, 2007a	0.01)	0.147	EPA, 2007a	growth, and survival	0.147	EPA, 2007a	growth, and survival	0.227		specific for reptiles.	0.227	EPA, 2007a	growth, and survival	0.227	EPA, 2007a	survival
						Highest bounded NOAEL			Highest bounded						Highest bounded NOAEL			Highest bounded NOAEL
			Acute median LC50			for growth and			NOAEL for growth and			A ' TD\'			for growth and			for growth and
			in common cricket (dose 4.3 with			reproduction lower than the lowest bounded			reproduction lower than the lowest bounded			Avian TRV was used as a surrogate for the rat snake			reproduction lower than the lowest bounded			reproduction lower than the lowest bounded LOAEL for
			uncertainty factor of			LOAEL for reproduction,			LOAEL for reproduction,			since no TRV was found			LOAEL for reproduction,			reproduction, growth, and
4,4'-DDT	0.043	EPA, 2007a	0.01)	0.147	EPA, 2007a	growth, and survival	0.147	EPA, 2007a	growth, and survival	0.227	<u></u>	specific for reptiles.	0.227	EPA, 2007a	growth, and survival	0.227	EPA, 2007a	survival
Acenaphthene			,														,	
Acenaphthylene																		
Anthracene																		
			Acute median LC50			Chronic LOAEL for			Chronic LOAEL for									
			in earthworms (dose			reproduction in mouse			reproduction in mouse									
Aroclor-1254	2.51	EPA, 1999	251 with uncertainty	0.155	Comple 1006	with an uncertainty factor of 0.1	0.155	Comple 1006	with an uncertainty factor of 0.1	0.18		Avian TRV	0.18	Sample, 1996		0.18	Sample, 1996	
Benzo(a)anthracene	2.51	EPA, 1999	factor of 0.01)	0.155	Sample, 1996	OF U. 1	0.155	Sample, 1996	factor of 0.1	0.18		Avian TRV	0.18	Sample, 1996		0.18	Sample, 1996	
Benzo(a)pyrene																		
Benzo(b)fluoranthene																		
Benzo(g,h,i)perylene																		
Benzo(k)fluoranthene																		
Boron Chrysene																		
Cobalt																		
						Highest bounded NOAEL			Highest bounded						Highest bounded NOAEL			Highest bounded NOAEL
			Geometric mean of the MATC and EC10			for growth and reproduction lower than			NOAEL for growth and reproduction lower than						for growth and reproduction lower than			for growth and reproduction lower than the
			values for six test			the lowest bounded			the lowest bounded						the lowest bounded			lowest bounded LOAEL for
			species under			LOAEL for reproduction,			LOAEL for reproduction,						LOAEL for reproduction,			reproduction, growth, and
Copper	80	EPA, 2007c	different test species	5.6	EPA, 2007c	growth, and survival	5.6	EPA, 2007c	growth, and survival	4.05		Avian TRV	4.05	EPA, 2007c	growth, and survival	4.05	EPA, 2007c	survival
Dibenz(a,h)anthracene																		
						Highest bounded NOAEL			Highest bounded						Highest bounded NOAEL			Highest bounded NOAEL
						for growth lower than the			NOAEL for growth lower						for growth lower than the			for growth lower than the
						lowest bounded LOAEL			than the lowest bounded						lowest bounded LOAEL			lowest bounded LOAEL for
			1	1		for reproduction, growth,			LOAEL for reproduction,						for reproduction, growth,			reproduction, growth, and
Dieldrin				0.015	EPA, 2005f		0.015	EPA, 2005f	growth, and survival	0.0709		Avian TRV	0.0709	EPA, 2005f	and survival	0.0709	EPA, 2005f	
						Chronic LOAEL in mouse with an uncertainty factor			Chronic LOAEL in mouse with an						Chronic LOAEL in screech owl with an uncertainty			Chronic LOAEL in screech owl with an uncertainty
Endrin Aldehyde				0.092	Sample, 1996		0.092	Sample, 1996		0.01	Sample, 1996	Avian TRV	0.01	Sample, 1996		0.01	Sample, 1996	
,				1	1,12, 1,200	Chronic LOAEL in mouse		, 12, 1200	Chronic LOAEL in		, 2, .200			1 , 2, 1300	Chronic LOAEL in screech		, 12, 1200	Chronic LOAEL in screech
			1	1		with an uncertainty factor			mouse with an					1	owl with an uncertainty			owl with an uncertainty
Endrin Ketone				0.092	Sample, 1996	of 0.1	0.092	Sample, 1996	uncertainty factor of 0.1	0.01	Sample, 1996	Avian TRV	0.01	Sample, 1996	factor of 0.1	0.01	Sample, 1996	factor of 0.1
Fluoranthene				ļ	-									ļ				
Fluorene			-	<del> </del>	+			-	Chronic NOAEL in					<del> </del>	Chronic NOAEL in red-			Chronic NOAEL in red-
gamma-Chlordane			1	4.6	Sample, 1996	Chronic NOAEL in mouse	4.6	Sample, 1996		2.14		Avian TRV	2.14	Sample, 1996	winged blackbird	2.14	Sample, 1996	
Indeno(1,2,3-cd)pyrene					22				5400								52	
			1	1		Highest bounded NOAEL			Highest bounded					1	Highest bounded NOAEL			Highest bounded NOAEL
			Goometrie meer -f			for growth and			NOAEL for growth and reproduction lower than						for growth and reproduction lower than			for growth and reproduction lower than the
			Geometric mean of MATC values for	1		reproduction lower than the lowest bounded			the lowest bounded					]	the lowest bounded			lowest bounded LOAEL for
			one test species	1		LOAEL for reproduction,			LOAEL for reproduction,					]	LOAEL for reproduction,			reproduction, growth, and
Lead	1700	EPA, 2005e		4.7	EPA, 2005e		4.7	EPA, 2005e	growth, and survival	1.63		Avian TRV	1.63	EPA, 2005e	growth, and survival	1.63	EPA, 2005e	survival
Molybdenum											-							
Naphthalene	1	1																

## TOXICITY VALUES

	Earthworm			Deer Mouse			Coyote			Rat Snake			American Robin			Red-tailed Hawk		
Parameter	(mg/kg)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments
			Geometric mean of MATC values for five species under different test			Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction,			Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction,						Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction,			Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and
Nickel Phenanthrene	280	EPA, 2007d	conditions	1.7	EPA, 2007d	growth, and survival	1.7	EPA, 2007d	growth, and survival	6.71		Avian TRV	6.71	EPA, 2007d	growth, and survival	6.71	EPA, 2007d	survival
Pyrene Pyrene																		-
Strontium																		+
Titanium																		+
Vanadium	100	EPA, 2005d	LOAEC/NOAEC for growth in brocolli used as a surrogate for invertebrates		EPA, 2005d	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival	4.16	EPA, 2005d	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival	0.344		Avian TRV	0.344	EPA, 2005d	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival	0.344	EPA, 2005d	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival
Zinc	120	EPA, 2007e	Geometric mean of the MATC and EC10 values for three test species under different test species		EPA, 2007e	Geometric mean of NOAEL values for reproduction and growth	75.4	EPA, 2007e	Geometric mean of NOAEL values for reproduction and growth	66.1		Avian TRV	66.1	EPA, 2007e	Geometric mean of NOAEL values within the reproductive and growth effect groups	66.1	EPA, 2007e	Geometric mean of NOAEL values within the reproductive and growth effect groups
LPAH	29	EPA, 2007b		65.6	EPA, 2007b	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival	65.6	EPA, 2007b	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival	65.6		Mammalian TRV	65.6		Mammalian TRV	65.6		Mammalian TRV
НРАН	18	EPA, 2007b		0.615	EPA, 2007b	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival	0.615	EPA, 2007b	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival	0.615		Mammalian TRV	0.615		Mammalian TRV	0.615		Mammalian TRV
TOTAL PAHs																		

## Notes:

EPA, 2007a -- DDT EPA, 2007b -- PAHs EPA, 2007c -- Copper EPA, 2007d -- Nickel

EPA, 2007d -- Nickel
EPA, 2007e -- Zinc
EPA, 2007f -- Selenium
EPA, 2005a -- Antimony
EPA, 2005b -- Cadmium
EPA, 2005c -- Chromium
EPA, 2005d -- Vanadium
EPA, 2005e -- Lead
EPA, 2005f -- Dieldrin
EPA, 2005g -- Barium

# TABLE C-4 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL SOUTH OF MARLIN EARTHWORM

Ecological Hazard Quotient = Sc/TRV

Definition
Soil Concentration (mg/kg)
Toxicity Reference Value (mg/kg) Default

Parameter Sc TRV see below

see TRV summary page

	Average	RME	TRV	Average	RME
Chemical	Sc	Sc	(earthworm)	EHQ	EHQ
2-Methylnaphthalene	6.98E-02	3.41E-01			
4,4-DDD	7.66E-03	4.98E-02	4.30E-02	1.78E-01	1.16E+00
4,4'-DDE	1.70E-03	5.40E-03	4.30E-02	3.95E-02	1.26E-01
4,4'-DDT	3.70E-03	1.25E-02	4.30E-02	8.60E-02	2.91E-01
Acenaphthene	4.19E-02	1.15E-01			
Acenaphthylene	4.20E-02	1.14E-01			
Anthracene	8.74E-02	2.10E-01			
Aroclor-1254	2.05E-01	7.40E-01	2.51E+00	8.17E-02	2.95E-01
Benzo(a)anthracene	2.68E-01	8.59E-01	2.0.2.00	02 02	2.002 0.
Benzo(a)pyrene	3.47E-01	1.01E+00			
Benzo(b)fluoranthene	4.66E-01	1.26E+00			
Benzo(g,h,i)perylene	2.51E-01	5.45E-01			
Benzo(k)fluoranthene	1.57E-01	3.78E-01			
Boron	4.81E+00	7.39E+00			
Chrysene	3.27E-01	9.38E-01			
Cobalt	4.14E+00	4.41E+00			
Copper	2.43E+01	4.69E+01	8.00E+01	3.03E-01	5.87E-01
Dibenz(a,h)anthracene	1.13E-01	2.36E-01	0.002.01	0.002 0.	0.0.2 0.
Dieldrin	9.01E-04	2.10E-03			
Endrin Aldehyde	1.90E-03	5.50E-03			
Endrin Ketone	1.30E-03	2.90E-03			
Fluoranthene	5.94E-01	1.89E+00			
Fluorene	4.42E-02	1.07E-01			
gamma-Chlordane	6.90E-04	1.70E-03			
Indeno(1,2,3-cd)pyrene	3.68E-01	7.61E-01			
Lead	5.35E+01	1.04E+02	1.70E+03	3.15E-02	6.12E-02
Molybdenum	8.90E-01	1.61E+00	11.102.100	0.102 02	0.122 02
Naphthalene	3.23E-01	2.78E+00			
Nickel	1.17E+01	1.24E+01	2.80E+02	4.19E-02	4.42E-02
Phenanthrene	4.01E-01	1.35E+00	2.002.02		
Pyrene	4.32E-01	1.29E+00			
Strontium	7.56E+01	1.01E+02			
Titanium	2.58E+01	3.22E+01			
Vanadium	1.44E+01	1.52E+01	1.00E+02	1.44E-01	1.52E-01
Zinc	4.34E+02	8.15E+02	1.20E+02	3.62E+00	6.79E+00
LPAH	1.01E+00	5.01E+00	2.90E+01	3.48E-02	1.73E-01
HPAH	3.32E+00	9.16E+00	1.80E+01	1.85E-01	5.09E-01
TOTAL PAHs	4.33E+00	1.42E+01	1.00ET01	1.00=01	0.00E-01
TOTAL PAHS	4.33E+00	1.42E+01			

# TABLE C-5 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN DEER MOUSE

SOIL INGESTION				
INTAKE = (Sc * IR * A	F * AUF) / (BW)			
	<b>-</b>			
Parameter	Definition		Value	Reference
Intake	Intake of chemical (mg/kg-day)		calculated	
Sc	Soil concentration (mg/kg)		see data page	
IR	Ingestion rate of soil (kg/day)		2.13E-05	EPA, 1999 (normalized for bw)
AF	Chemical Bioavailability in soil (unit	less)	1	EPA, 1997
AUF	Area Use Factor		1	EPA, 1997
BW	Body weight (kg)		1.48E-02	EPA, 1999
	A.,	DME	A.,ana.a	DME
Chemical	Average Sc	RME Sc	Average Intake	RME Intake
		•		
2-Methylnaphthalene	6.98E-02	3.41E-01	1.00E-04	4.91E-04
4,4-DDD	7.66E-03	4.98E-02	1.10E-05	7.17E-05
4,4'-DDE	1.70E-03	5.40E-03	2.45E-06	7.77E-06
4,4'-DDT	3.70E-03	1.25E-02	5.33E-06	1.80E-05
Acenaphthene	4.19E-02	1.15E-01	6.03E-05	1.66E-04
Acenaphthylene	4.20E-02	1.14E-01	6.04E-05	1.64E-04
Anthracene	8.74E-02	2.10E-01	1.26E-04	3.02E-04
Animacene Aroclor-1254	2.05E-01	7.40E-01	2.95E-04	1.07E-03
Benzo(a)anthracene	2.68E-01	8.59E-01	3.86E-04	1.24E-03
Benzo(a)pyrene	3.47E-01	1.01E+00	4.99E-04	1.45E-03
Benzo(b)fluoranthene	4.66E-01	1.26E+00	6.71E-04	1.81E-03
Benzo(g,h,i)perylene	2.51E-01	5.45E-01	3.61E-04	7.84E-04
Benzo(k)fluoranthene	1.57E-01	3.78E-01	2.26E-04	5.44E-04
Boron	4.81E+00	7.39E+00	6.92E-03	1.06E-02
Chrysene	3.27E-01	9.38E-01	4.71E-04	1.35E-03
Cobalt	4.14E+00	4.41E+00	5.96E-03	6.34E-03
Copper	2.43E+01	4.69E+01	3.49E-02	6.75E-02
Dibenz(a,h)anthracen		2.36E-01	1.63E-04	3.40E-04
Dieldrin	9.01E-04	2.10E-03	1.30E-06	3.02E-06
Endrin Aldehyde	1.90E-03	5.50E-03	2.73E-06	7.92E-06
Endrin Ketone	1.30E-03	2.90E-03	1.87E-06	4.17E-06
Fluoranthene	5.94E-01	1.89E+00	8.55E-04	2.71E-03
Fluorene	4.42E-02	1.07E-01	6.36E-05	1.54E-04
gamma-Chlordane	6.90E-04	1.70E-03	9.94E-07	2.45E-06
Indeno(1,2,3-cd)pyrer		7.61E-01	5.30E-04	1.10E-03
Lead	5.35E+01	1.04E+02	7.70E-02	1.50E-01
Molybdenum	8.90E-01	1.61E+00	1.28E-03	2.32E-03
Naphthalene	3.23E-01	2.78E+00	4.65E-04	3.99E-03
Nickel	1.17E+01	1.24E+01	1.69E-02	1.78E-02
Phenanthrene	4.01E-01	1.35E+00	5.77E-04	1.94E-03
Pyrene	4.32E-01	1.29E+00	6.22E-04	1.86E-03
Strontium	7.56E+01	1.01E+02	1.09E-01	1.45E-01
Titanium	2.58E+01	3.22E+01	3.71E-02	4.64E-02
Vanadium	1.44E+01	1.52E+01	2.07E-02	2.18E-02
Zinc	4.34E+02	8.15E+02	6.24E-01	1.17E+00
LPAH	1.01E+00	5.01E+00	1.45E-03	7.21E-03
HPAH	3.32E+00	9.16E+00	4.78E-03	1.32E-02
TOTAL PAHs	4.33E+00	1.42E+01	6.23E-03	2.04E-02
FOOD INGESTION				
INTAKE = ((Ca * IR *	DFa * AUF) / (BW) + ((Cp * IR * DFs	s *AUF)/(BW))		
Parameter	Definition		Value	Reference
Intake	Intake of chemical (mg/kg-day)		calculated	
Ca	Arthropod concentration (mg/kg)		see FoodConc page	
Са Ср	Plant concentration (mg/kg)		see FoodConc page	
	, G G,		. •	
IR Dto	Ingestion rate of of food (kg/day)	200)	8.87E-03	EPA, 1999 (normalized for bw)
Dfa	Dietary fraction of arthropods (unitle	ess)	5.60E-01	EPA, 1993

# TABLE C-5 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN DEER MOUSE

Dfs	Dietary fraction of plants, seeds and other vegetation (unitless)	4.40E-01	EPA, 1993
AUF	Area Use Factor	1	EPA, 1997
BW	Body weight (kg)	1.48E-02	EPA, 1999

	Average	RME	Average	RME	Average	RME	
Chemical		Arthropod	Plant	Plant	Intake	Intake	
	•	•					
2-Methylnaphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
4,4-DDD	9.65E-03	6.27E-02	7.18E-05	4.67E-04	3.26E-03	2.12E-02	
4,4'-DDE	2.14E-03	6.80E-03	1.59E-05	5.06E-05	7.23E-04	2.30E-03	
4,4'-DDT	4.66E-03	1.58E-02	3.47E-05	1.17E-04	1.57E-03	5.32E-03	
Acenaphthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Acenaphthylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Anthracene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Aroclor-1254	2.32E-01	8.36E-01	2.05E-03	7.40E-03	7.83E-02	2.83E-01	
Benzo(a)anthracene	8.04E-03	2.58E-02	5.41E-03	1.74E-02	4.13E-03	1.32E-02	
Benzo(a)pyrene	2.43E-02	7.06E-02	3.50E-03	1.02E-02	9.08E-03	2.64E-02	
Benzo(b)fluoranthene	3.26E-02	8.79E-02	4.71E-03	1.27E-02	1.22E-02	3.29E-02	
Benzo(g,h,i)perylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Benzo(k)fluoranthene	1.26E-02	3.02E-02	1.59E-03	3.82E-03	4.63E-03	1.12E-02	
Boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Chrysene	1.31E-02	3.75E-02	6.11E-03	1.75E-02	6.00E-03	1.72E-02	
Cobalt	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Copper	9.70E-01	1.88E+00	9.70E+00	1.88E+01	2.88E+00	5.58E+00	
Dibenz(a,h)anthracene	7.91E-03	1.65E-02	7.23E-04	1.51E-03	2.85E-03	5.94E-03	
Dieldrin	1.32E-02	3.09E-02	3.14E-05	7.33E-05	4.45E-03	1.04E-02	
Endrin Aldehyde	0.00E+00	0.00E+00	1.09E-04	3.17E-04	2.89E-05	8.35E-05	
Endrin Ketone	0.00E+00	0.00E+00	7.49E-05	1.67E-04	1.97E-05	4.40E-05	
Fluoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Fluorene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
gamma-Chlordane	0.00E+00	0.00E+00	9.87E-06	2.43E-05	2.60E-06	6.41E-06	
Indeno(1,2,3-cd)pyrene	2.94E-02	6.09E-02	1.44E-03	2.97E-03	1.03E-02	2.12E-02	
Lead	1.61E+00	3.12E+00	2.41E+00	4.68E+00	1.17E+00	2.28E+00	
Molybdenum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Nickel	2.35E-01	2.47E-01	3.76E-01	3.96E-01	1.78E-01	1.87E-01	
Phenanthrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Pyrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Strontium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Titanium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Vanadium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Xylene (total)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Zinc	2.43E+02	4.57E+02	5.21E-10	9.78E-10	8.15E+01	1.53E+02	
LPAH	7.07E-02	3.51E-01	2.04E-02	1.01E-01	2.91E-02	1.44E-01	
HPAH	2.33E-01	6.41E-01	6.71E-02	1.85E-01	9.58E-02	2.64E-01	
TOTAL PAHs	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

TOTAL INTAKE

INTAKE = Soil Intake + Food Intake

	TOTAL	TOTAL	
	Average	RME	
Chemical	Intake	Intake	
2-Methylnaphthalene	1.00E-04	4.91E-04	
4.4-DDD	3.27E-03	2.13E-02	
4,4'-DDE	7.26E-04	2.30E-03	
4,4'-DDT	1.58E-03	5.33E-03	
Acenaphthene	6.03E-05	1.66E-04	
Acenaphthylene	6.04E-05	1.64E-04	
Anthracene	1.26E-04	3.02E-04	
Aroclor-1254	7.86E-02	2.84E-01	
Benzo(a)anthracene	4.51E-03	1.45E-02	

# TABLE C-5 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN DEER MOUSE

Benzo(a)pyrene	9.58E-03	2.78E-02
Benzo(b)fluoranthene	1.29E-02	3.47E-02
Benzo(g,h,i)perylene	3.61E-04	7.84E-04
Benzo(k)fluoranthene	4.86E-03	1.17E-02
Boron	6.92E-03	1.06E-02
Chrysene	6.47E-03	1.86E-02
Cobalt	5.96E-03	6.34E-03
Copper	2.92E+00	5.65E+00
Dibenz(a,h)anthracene	3.01E-03	6.28E-03
Dieldrin	4.45E-03	1.04E-02
Endrin Aldehyde	3.16E-05	9.15E-05
Endrin Ketone	2.16E-05	4.82E-05
Fluoranthene	8.55E-04	2.71E-03
Fluorene	6.36E-05	1.54E-04
gamma-Chlordane	3.60E-06	8.86E-06
Indeno(1,2,3-cd)pyrene	1.08E-02	2.23E-02
Lead	1.25E+00	2.43E+00
Molybdenum	1.28E-03	2.32E-03
Naphthalene	4.65E-04	3.99E-03
Nickel	1.95E-01	2.05E-01
Phenanthrene	5.77E-04	1.94E-03
Pyrene	6.22E-04	1.86E-03
Strontium	1.09E-01	1.45E-01
Titanium	3.71E-02	4.64E-02
Vanadium	2.07E-02	2.18E-02
Zinc	8.22E+01	1.54E+02
LPAH	3.05E-02	1.52E-01
HPAH	1.01E-01	2.77E-01
TOTAL PAHs	1.31E-01	4.29E-01

# TABLE C-6 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN COYOTE

### FOOD INGESTION INTAKE = ((Cm \* IR \* Dfm \* AUF)/(BW) + (Cb \* IR \* DFb \* AUF) / (BW)) Parameter Definition Value Reference Intake of chemical (mg/kg-day) Intake calculated Mammal concentration (mg/kg) see FoodConc page Cm Bird concentration (mg/kg) see FoodConc page Cb IR Ingestion rate of of food (kg/day) 1.55E+00 EPA, 1993 (normalized for bw) Dfm Dietary fraction of small mammals (unitless) 7.50E-01 EPA, 1993 EPA, 1993 Dfb Dietary fraction of birds (unitless) 2.50E-01 AUF Area Use Factor 1 EPA, 1997 BW Body weight (kg) 1.55E+01 EPA, 1993 Average RME Average RME Average **RME** Mammal Mammal Bird Bird Intake Intake Chemical 2-Methylnaphthalene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.36E-03 1.26E-04 4 4-DDD 2 09F-04 8 17F-04 1.88F-05 1 22F-04 4,4'-DDE 4.64E-05 1.47E-04 2.79E-05 8.86E-05 4.17E-06 1.33E-05 4,4'-DDT 1.01E-04 3.41E-04 6.07E-05 2.05E-04 9.08E-06 3.07E-05 0.00E+00 0.00E+00 0.00E+00 Acenaphthene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Acenaphthylene 0.00E+00 0.00E+00 0.00F+00 0.00F+00 0.00F+00 Anthracene 0.00E+00 Aroclor-1254 4.99E-03 1.80E-02 3.00E-03 1.08E-02 4.50E-04 1.62E-03 Benzo(a)anthracene 1.93E-03 6.19E-03 1.16E-03 3.72E-03 1.74E-04 5.57E-04 Benzo(a)pyrene 7.06E-03 2.05E-02 4.26E-03 1.24E-02 6.36E-04 1.85E-03 Benzo(b)fluoranthene 1.12E-02 3.02E-02 6.73E-03 1.81E-02 1.01E-03 2.72E-03 Benzo(g,h,i)perylene 0.00E+00 0.00F+00 0.00E+00 0.00F+00 0.00F+00 0.00E+00Benzo(k)fluoranthene 3.76E-03 9.06E-03 2.25E-03 5.42E-03 3.38E-04 8.15E-04 Boron 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00F+00 0.00E+00 Chrysene 2.71E-03 7.78E-03 1.63E-03 4.69E-03 2.44E-04 7.00E-04 Cobalt 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00F+00 0.00E+00 Copper 0.00F+00 0.00F+00 0.00F+00 0.00F+00 Dibenz(a,h)anthracene 6.01E-03 1.26E-02 3.63E-03 7.58E-03 5.42E-04 1.13E-03 5.09E-06 1.19E-05 3.31E-06 7.73E-06 1.08E-06 4 65F-07 Dieldrin Endrin Aldehyde 4.50E-06 1.30E-05 2.95E-06 8.53E-06 4.11E-07 1.19E-06 Endrin Ketone 3.08E-06 6.87E-06 2.02E-06 4.50E-06 2.81E-07 6.28E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Fluoranthene 0.00E+00 0.00E+00 Fluorene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.19E-05 gamma-Chlordane 1 82F-05 4 47F-05 2.92F-05 1.66F-06 4 08F-06 Indeno(1,2,3-cd)pyrene 4.57E-02 9.46E-02 2.75E-02 5.69E-02 4.12E-03 8.52E-03 9.66E-03 1.88E-02 0.00E+00 0.00E+00 7.24E-04 1.41E-03 Lead 0.00E+00 0.00E+00 0.00F+00 0.00E+00 Molybdenum 0.00E+00 0.00E+00 Naphthalene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.24E-02 4 46F-02 0 00F+00 0.00F+00 Nickel 3 18F-03 3.35E-03 Phenanthrene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Pvrene Strontium 0.00E+00 0.00E+00 0.00E+00 0.00E+000.00E+00 0.00E+00 0.00E+00 Titanium 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Vanadium 0.00E+00 0.00E+00 0.00E+000.00E+00 0.00E+002.34E-02 4.40E-02 1.74E+00 3.27E+00 4.53E-02 8.51E-02 Zinc

LPAH

HPAH

TOTAL PAHs

5.37E-02

1.77E-01

0.00E+00

2.67E-01

4.87E-01

0.00E+00

3.24E-02

1.07E-01

0.00E+00

1.61F-01

2.94E-01

0.00E+00

4.84E-03

1.59E-02

0.00E+00

2.40E-02

4.39E-02

0.00E+00

## TABLE C-7 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN RAT SNAKE

Sc   Soil   Inges   AF   Chem   AF   Chem   AF   AUF   Area   BW   Body    Chemical   2-Methylnaphthalene   4,4-DDD   4,4'-DDD   4,4'-DDT   Acenaphthene   Acenaphthylene   Anthracene   Aroclor-1254   Benzo(a)anthracene   Benzo(b)fluoranthene   Benzo(b)fluoranthene   Benzo(b)fluoranthene   Benzo(b)fluoranthene   Boron   Chrysene   Cobalt   Copper   Dibenz(a,h)anthracene   Dieldrin   Aldehyde   Endrin Aldehyde   Endrin Aldehyde   Endrin Aldehyde   Endrin Aldehyde   Endrin Aldehyde   Indeno(1,2,3-cd)pyrene   Lead   Molybdenum   Naphthalene   Nickel   Phenanthrene   Pyrene   Strontium   Titanium   Vanadium   Zinc   LPAH   HPAH   TOTAL PAHs   FOOD INGESTION    INTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Parameter   Defir Intake   Cb   Bird   Ca   Arthr	e of chemical (mg/kg-day) concentration (mg/kg) tion rate of soil (kg/day) tical Bioavailability in soil (unitless) Use Factor weight (kg)  Average Sc  6.98E-02 7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	RME Sc 3.41E-01 4.98E-02	Value calculated see data page 1.45E-04 1 1.39E-01  Average Intake 7.26E-05	Reference  EPA, 1993 * EPA, 1997 EPA, 1997 EPA, 1993  RME Intake
Parameter Defir Intake Intake Sc Soil-R Intake Sc Soil-R Inger AF Cher AUF Area BW Body  Chemical 2-Methylnaphthalene 4,4-DDD 4,4'-DDE 4,4'-DDT Acenaphthylene Anthracene Arcalphthylene Anthracene Arcolor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Broron Chrysene Cobalt Copper Dibenz(a,h)anthracene Dieldrin Endrin Aldehyde Endrin Ketone Fluoranthene Fluorene gamma-Chlordane Indeno(1,2,3-cd)pyrene Lead Molybdenum Naphthalene Nickel Phenanthrene Pyrene Strontium Titanium Vanadium Zinc LPAH HPAH TOTAL PAHs  FOOD INGESTION INTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Parameter Defir Intake Cb Bird Ca Arthr	e of chemical (mg/kg-day) concentration (mg/kg) tion rate of soil (kg/day) tical Bioavailability in soil (unitless) Use Factor weight (kg)  Average Sc  6.98E-02 7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	Sc 3.41E-01 4.98E-02	calculated see data page 1.45E-04 1 1 1.39E-01  Average Intake	EPA, 1993 * EPA, 1997 EPA, 1997 EPA, 1993
Intake Sc Soil Inger RR Inger AF Cherr AUF Area BW Body  Chemical  2-Methylnaphthalene 4,4-DDD 4,4'-DDE 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Anthracene Antoclor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(h)fluoranthene Be	e of chemical (mg/kg-day) concentration (mg/kg) tion rate of soil (kg/day) tical Bioavailability in soil (unitless) Use Factor weight (kg)  Average Sc  6.98E-02 7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	Sc 3.41E-01 4.98E-02	calculated see data page 1.45E-04 1 1 1.39E-01  Average Intake	EPA, 1993 * EPA, 1997 EPA, 1997 EPA, 1993
Intake Sc Soil R Inger Sc Inger Sc Inge	e of chemical (mg/kg-day) concentration (mg/kg) tion rate of soil (kg/day) tical Bioavailability in soil (unitless) Use Factor weight (kg)  Average Sc  6.98E-02 7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	Sc 3.41E-01 4.98E-02	calculated see data page 1.45E-04 1 1 1.39E-01  Average Intake	EPA, 1993 * EPA, 1997 EPA, 1997 EPA, 1993
Sc Soil a Inges AF Cherr AUF Area BW Body  Chemical  2-Methylnaphthalene 4,4-DDD 4,4-DDD 4,4-DDT Acenaphthene Acenaphthylene Anthracene Ancolor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(b)fluoranthene Benzo(b)f	oncentration (mg/kg) tion rate of soil (kg/day) tical Bioavailability in soil (unitless) Use Factor weight (kg)  Average Sc  6.98E-02 7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	Sc 3.41E-01 4.98E-02	see data page 1.45E-04 1 1 1.39E-01  Average Intake	EPÁ, 1997 EPA, 1997 EPA, 1993
RAF Cher Cher AUF Area BW Body  Chemical  2-Methylnaphthalene 4,4-DDD 4,4-DDT Acenaphthene Acenaphthylene Anthracene Benzo(a)pyrene Benzo(a)pyrene Benzo(g,h,i)perylene Benzo(g,h,i)perylene Benzo(g,h,i)perylene Benzo(g,h,i)perylene Benzo(g,h,i)perylene Benzo(g,h)anthracene Dieldrin Endrin Aldehyde Endrin Ketone Fluoranthene Baman-Chlordane ndeno(1,2,3-cd)pyrene Brontontom Maphthalene Nickel Phenanthrene Pyrene Brontom Fitanium Vanadium Zinc Phenanthrene Porton Brontom Fitanium Vanadium Zinc Phenanthrene Phen	Average Sc  6.98E-02 7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	Sc 3.41E-01 4.98E-02	1.45E-04 1 1 1.39E-01 Average Intake	EPÁ, 1997 EPA, 1997 EPA, 1993
AF AUF Area BM Body  Chemical  2-Methylnaphthalene 4,4-DDD 4,4'-DDE 4,4'-DDE 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Arcolor-1254 Benzo(a)aphrene Benzo(a)hyriperylene Benzo(b)fluoranthene Benzo(a)hyriperylene Benzo(k)fluoranthene Boron Chrysene Cobalt Copper Dibenz(a,h)anthracene Fluoranthene Fluoranthrene Pyrene Bstrontium Fitanium Vanadium Zinc PAH HPAH FOTAL PAHs  FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca author) Parameter Defir ntake Defir Dibertical Arthr	Average Sc  6.98E-02 7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	Sc 3.41E-01 4.98E-02	1 1 1.39E-01 Average Intake	EPÁ, 1997 EPA, 1997 EPA, 1993
Chemical  2-Methylnaphthalene 4,4-DDD 4,4'-DDE 4,4'-DDT Acenaphthylene Anthracene Arcolor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(	Average Sc  6.98E-02 7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	Sc 3.41E-01 4.98E-02	1 1.39E-01 Average Intake	EPA, 1997 EPA, 1993 RME
Chemical  C-Methylnaphthalene 4,4-DDD 4,4'-DDE 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Acolor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)f	Average Sc 6.98E-02 7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	Sc 3.41E-01 4.98E-02	1.39E-01  Average Intake	EPA, 1993 RME
Chemical  2-Methylnaphthalene 4,4-DDD 4,4-DDE 4,4-DDT Acenaphthene Acenaphthylene Anthracene Benzo(a)pyrene Benzo(a)pyrene Benzo(g,h,i)perylene Benzo(g,h,i)perylene Benzo(g,hi)perylene Benzo(k)fluoranthene Benzo(ghidoranthene	Average Sc 6.98E-02 7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	Sc 3.41E-01 4.98E-02	Average Intake	RME
2-Methylnaphthalene 4,4-DDD 4,4'-DDE 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene	Sc 6.98E-02 7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	Sc 3.41E-01 4.98E-02	Intake	
2-Methylnaphthalene 4,4-DDD 4,4-DDE 4,4-DDT Acenaphthene Acenaphthylene Anthracene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene B	Sc 6.98E-02 7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	Sc 3.41E-01 4.98E-02	Intake	
4,4-DDD 4,4'-DDE 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Arcolor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(g,h,i)perylene Benzo(k)fluoranthene Be	7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	4.98E-02	7.005.05	
,4-DDD ,4-DDE ,4-DDE ,4-DDT ,cenaphthene ,cenaphthylene ,inthracene ,roclor-1254 ,enzo(a)anthracene ,enzo(a)pyrene ,enzo(b)fluoranthene ,enzo(b)fluoranthene ,enzo(b)fluoranthene ,enzo(k)fluoranthene ,enzo(k)fluoranthene ,enzo(k)fluoranthene ,enzo(k)fluoranthene ,enzo(k)fluoranthene ,enzo(k)fluoranthene ,enzo(k)fluoranthene ,enzo(k)fluoranthene ,enzo(k)fluoranthene ,endrin Ketone	7.66E-03 1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02	4.98E-02		3.55E-04
A.4'-DDE A.4'-DDT Acenaphthene Acenaphthylene Anthracene Arcolor-1254 Benzo(a)apyrene Benzo(b)fluoranthene Benzo(c)fluoranthene Bendrin Aldehyde Bendrin Bend	1.70E-03 3.70E-03 4.19E-02 4.20E-02 8.74E-02		7.97E-06	5.18E-05
A'-DDT Acenaphthene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluo	3.70E-03 4.19E-02 4.20E-02 8.74E-02	5.40E-03	1.77E-06	5.62E-06
coenaphthene coenaphthylene contracene contr	4.19E-02 4.20E-02 8.74E-02	1.25E-02	3.85E-06	1.30E-05
Accenaphthylene Anthracene Aroclor-1254 Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g),h,i)perylene Benzo(k)fluoranthene Benzo(a,h)anthracene Bieldrin Endrin Aldehyde Endrin Ketone Bieldrin Endrin Aldehyde Bieldrin Ketone Bieldrin Ket	4.20E-02 8.74E-02			
Anthracene Arcolor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthracene Benzo(k)flu	8.74E-02	1.15E-01	4.36E-05	1.20E-04
Aroclor-1254 Benzo(a) anthracene Benzo(a) pyrene Benzo(b) fluoranthene Benzo(b) fluoranthene Benzo(b) fluoranthene Benzo(b) fluoranthene Benzo(k) fluoranthene Bendrin Aldehyde Endrin Aldehyde Endrin Ketone Fluoranthene Bluorene		1.14E-01	4.37E-05	1.19E-04
Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthracene Benzo(k)fluoranthracene Benzo(k)fluoranthracene Benzo(k)fluoranthene Benzo(k)		2.10E-01	9.09E-05	2.18E-04
Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(a,h)anthracene Dieldrin Endrin Aldehyde Endrin Ketone Eluoranthene Fluoranthene Fluoranthene Benzondondondondolophoranthene Benzondolophoranthene Benzondolophoranth	2.05E-01	7.40E-01	2.13E-04	7.70E-04
Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzone  2.68E-01	8.59E-01	2.79E-04	8.93E-04	
Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Cobalt Copper Dibenz(a,h)anthracene Dieldrin Endrin Aldehyde Endrin Ketone Fluoranthene Fluoranthene Fluoranthene Fluoranthene Ruorene Benama-Chlordane Indeno(1,2,3-cd)pyrene Lead Molybdenum Raphthalene Rickel Phenanthrene Pyrene Btrontium Fitanium Anadium Fitanium Anadium FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Carameter Defirentake Cb Bird Ca Arthr	3.47E-01	1.01E+00	3.61E-04	1.05E-03
Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Cobalt Copper Dibenz(a,h)anthracene Dieldrin Endrin Aldehyde Endrin Ketone Fluoranthene Fluoranthene Fluoranthene Fluoranthene Ruorene Benama-Chlordane Indeno(1,2,3-cd)pyrene Lead Molybdenum Raphthalene Rickel Phenanthrene Pyrene Btrontium Fitanium Anadium Fitanium Anadium FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Carameter Defirentake Cb Bird Ca Arthr	4.66E-01	1.26E+00	4.85E-04	1.31E-03
Benzo(k)fluoranthene Boron Chrysene Cobalt Copper Dibenz(a,h)anthracene Dieldrin Endrin Aldehyde Endrin Aldehyde Endrin Ketone Fluoranthene Fluorene Jamma-Chlordane Indeno(1,2,3-cd)pyrene Lead Molybdenum Raphthalene Rickel Phenanthrene Pyrene Btrontium Fitanium Vanadium Fitanium FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Carameter Definentake Cb Bird Ca Arthr	2.51E-01	5.45E-01	2.61E-04	5.67E-04
Boron Chrysene Cobalt Copper Dibenz(a,h)anthracene Dieldrin Endrin Aldehyde Endrin Ketone Fluoranthene Fluorene gamma-Chlordane ndeno(1,2,3-cd)pyrene eed Molybdenum Naphthalene Nickel Phenanthrene Pyrene Etrontium Fitanium Vanadium Fitanium Vanadium Fitanium FOTAL PAHS FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Ca	1.57E-01	3.78E-01	1.63E-04	3.93E-04
Chrysene Cobalt Copper Cobalt Copper Cobienz(a,h)anthracene Dieldrin Endrin Aldehyde Endrin Ketone Fluoranthene Fluorene gamma-Chlordane ndeno(1,2,3-cd)pyrene Lead Molybdenum Maphthalene Mickel Phenanthrene Strontium Fitanium Canadium Fitanium Ca	4.81E+00	7.39E+00	5.00E-03	7.68E-03
Cobalt Copper Dibenz(a,h)anthracene Diceldrin Endrin Aldehyde Endrin Ketone Fluoranthene Fluoranthene Fluorene Jamma-Chlordane Ideno(1,2,3-cd)pyrene Lead Molybdenum Japhthalene Jickel Phenanthrene Pyrene Brontium Fitanium Vanadium Fitanium Vanadium Fitani FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Parameter  Define Thake Ca Arthr				
Copper Dibenz(a,h)anthracene Dibenz(a,h)anth	3.27E-01	9.38E-01	3.40E-04	9.76E-04
Dibenz(a,h)anthracene Dieldrin Endrin Aldehyde Endrin Ketone Iluoranthene Fluorene Jamma-Chlordane Ideno(1,2,3-cd)pyrene Lead Molybdenum Japhthalene Jickel Phenanthrene Pyrene Strontium Fitanium Vanadium Fitanium FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Carameter Defirentake Ca Bird Ca Arthr	4.14E+00	4.41E+00	4.31E-03	4.58E-03
Dieldrin Indrin Aldehyde Endrin Ketone Fluoranthene Fluorene Jamma-Chlordane Jamma-Chlordane Jamma-Chlordane Japhthalene Jickel John Japhthalene Jickel John Japhthalene Jickel John Japhthalene Jickel John Japhthalene Jickel John Japhthalene Jickel John Japhthalene John Japhthal	2.43E+01	4.69E+01	2.52E-02	4.88E-02
Endrin Aldehyde Endrin Ketone Iluoranthene Iluoranthene Iluorane I	1.13E-01	2.36E-01	1.18E-04	2.45E-04
Endrin Ketone Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthrene Fluoranthre	9.01E-04	2.10E-03	9.37E-07	2.18E-06
Fluoranthene Fluorene pamma-Chlordane ndeno(1,2,3-cd)pyrene ead Molybdenum kaphthalene klickel Phenanthrene Pyrene Strontium Fitanium //anadium Fitanium FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Carameter Defirentake Cb Bird Ca Arthr	1.90E-03	5.50E-03	1.98E-06	5.72E-06
Fluoranthene Fluorene pamma-Chlordane ndeno(1,2,3-cd)pyrene ead Molybdenum kaphthalene klickel Phenanthrene Pyrene Strontium Fitanium //anadium Fitanium FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Carameter Defirentake Cb Bird Ca Arthr	1.30E-03	2.90E-03	1.35E-06	3.02E-06
Fluorene  jamma-Chlordane ndeno(1,2,3-cd)pyrene ead  Molybdenum Naphthalene Nickel Phenanthrene Pyrene Strontium Fitanium /anadium Fitanium /anadium FOTAL PAHS  FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * IR * Dfb * AUF)/(BW) + (Ca * IR * IR * IR * IR * IR * IR * IR * I	5.94E-01	1.89E+00	6.18E-04	1.96E-03
gamma-Chlordane indeno(1,2,3-cd)pyrene lead Molybdenum Maphthalene Mickel Phenanthrene Pyrene Strontium Citanium Vanadium Zinc PAH HPAH FOTAL PAHs  FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Carameter Defirentake Lintake	4.42E-02	1.07E-01	4.60E-05	1.11E-04
ndeno(1,2,3-cd)pyrene ead  //olybdenum laphthalene lickel Phenanthrene Pyrene Etrontium Titanium /anadium Linc PAH IPAH OTAL PAHs  COOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Carameter Defirentake Defirenta	6.90E-04	1.70E-03	7.18E-07	1.77E-06
nead Molybdenum Japhthalene Jickel Phenanthrene Pyrene Etrontium Titanium Zinadium Zinc PAH JPAH OTAL PAHs  FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Definition Not the Company of the				
Molybdenum Vaphthalene Vickel Phenanthrene Pyrene Strontium Titanium Vanadium Zinc PAH HPAH TOTAL PAHs  FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * IR * Dfb * IR * IR * IR * IR * IR * IR * IR * I	3.68E-01	7.61E-01	3.83E-04	7.91E-04
Japhthalene Jickel Phenanthrene Pyrene Strontium Titanium Janadium Titanium Janadium	5.35E+01	1.04E+02	5.57E-02	1.08E-01
Veranthrene Veranthrene Verane	8.90E-01	1.61E+00	9.26E-04	1.67E-03
Phenanthrene Pyrene Pyr	3.23E-01	2.78E+00	3.36E-04	2.89E-03
Pyrene Strontium Titanium Zinc Zanadium Zinc ZPAH ZIPAH OTAL PAHS  COOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * IR * IR * IR * IR * IR * IR * IR * I	1.17E+01	1.24E+01	1.22E-02	1.29E-02
Pyrene Py	4.01E-01	1.35E+00	4.17E-04	1.40E-03
Strontium itanium //anadium //anadium //inc //PAH IPAH OTAL PAHs  OOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Intake	4.32E-01	1.29E+00	4.49E-04	1.34E-03
Titanium	7.56E+01	1.01E+02	7.86E-02	1.05E-01
Vanadium Vinc PAH IPAH IPOTAL PAHs  COOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Definition)  Parameter Definitake Lb Bird Ca Arthr	2.58E+01	3.22E+01	2.68E-02	3.35E-02
### Company				
PAH IPAH OTAL PAHS  OOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Definition and the companion of the companion	1.44E+01	1.52E+01	1.50E-02	1.58E-02
PARH FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Definition	4.34E+02	8.15E+02	4.51E-01	8.48E-01
FOTAL PAHS  FOOD INGESTION  NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Parameter Defirentiake Intake Bird Arthree)	1.01E+00	5.01E+00	1.05E-03	5.21E-03
## Parameter   Defining that	3.32E+00	9.16E+00	3.46E-03	9.52E-03
NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Definition of the company of	4.33E+00	1.42E+01	4.51E-03	1.47E-02
NTAKE = ((Cb * IR * Dfb * AUF)/(BW) + (Ca * Definition of the composition of the comp				
Parameter Definintake Intake Bird Ca Arthr	IR * DFa * AUF) / (RW) + ((Cm * IR *	DFm *AUF)/(RW))		
ntake Intak Cb Bird Ca Arthr	, , , ,	= · · · · · · · · · · · · · · · · · · ·		
Cb Bird Ca Arthr			Value	Reference
Ca Arthr	of chemical (mg/kg-day)		calculated	
	oncentration (mg/kg)		see FoodConc page	
`m Mam	pod concentration (mg/kg)		see FoodConc page	
ill iviall	nal concentration (mg/kg)		see FoodConc page	
	tion rate of of food (kg/day)		2.78E-03	EPA, 1993 (normalized for b
	y fraction of birds (unitless)		1.80E-01	EPA, 1993
	ry fraction of arthropods (unitless)		2.00E-01	EPA, 1993
	• • • •	1	6.20E-01	EPA, 1993
	Ty traction of email mammale (unitless)	1		,
	ry fraction of small mammals (unitless)		1 1.39E-01	EPA, 1997 EPA, 1993
Body	Use Factor		1.38E-01	LI A, 1383
A		TORS DATE	A	DME
Average F Chemical Bird	Use Factor weight (kg)	rage RME	Average Intake	RME Intake

## TABLE C-7 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN RAT SNAKE

2-Methylnaphthalene	0.00E+00	0.00E+00 0		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4,4-DDD	1.26E-04		9.65E-03	6.27E-02	2.09E-04	1.36E-03	4.16E-05	2.71E-04
4,4'-DDE	2.79E-05		2.14E-03	6.80E-03	4.64E-05	1.47E-04	9.24E-06	2.94E-05
4,4'-DDT	6.07E-05		4.66E-03	1.58E-02	1.01E-04	3.41E-04	2.01E-05	6.80E-05
Acenaphthene	0.00E+00	0.00E+00 0		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acenaphthylene	0.00E+00	0.00E+00 0		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Anthracene	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Aroclor-1254	3.00E-03	1.08E-02 2		8.36E-01	4.99E-03	1.80E-02	9.99E-04	3.61E-03
Benzo(a)anthracene	1.16E-03	3.72E-03 8	3.04E-03	2.58E-02	1.93E-03	6.19E-03	6.03E-05	1.93E-04
Benzo(a)pyrene	4.26E-03	1.24E-02 2	2.43E-02	7.06E-02	7.06E-03	2.05E-02	2.00E-04	5.81E-04
Benzo(b)fluoranthene	6.73E-03	1.81E-02 3	3.26E-02	8.79E-02	1.12E-02	3.02E-02	2.94E-04	7.92E-04
Benzo(g,h,i)perylene	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(k)fluoranthene	2.25E-03	5.42E-03 1	1.26E-02	3.02E-02	3.76E-03	9.06E-03	1.05E-04	2.53E-04
Boron	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chrysene	1.63E-03	4.69E-03 1	1.31E-02	3.75E-02	2.71E-03	7.78E-03	9.18E-05	2.63E-04
Cobalt	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Copper	0.00E+00	0.00E+00 9	9.70E-01	1.88E+00	0.00E+00	0.00E+00	3.88E-03	7.51E-03
Dibenz(a,h)anthracene	3.63E-03	7.58E-03 7	7.91E-03	1.65E-02	6.01E-03	1.26E-02	1.19E-04	2.49E-04
Dieldrin	3.31E-06	7.73E-06 1	1.32E-02	3.09E-02	5.09E-06	1.19E-05	5.30E-05	1.24E-04
Endrin Aldehyde	2.95E-06	8.53E-06 0	.00E+00	0.00E+00	4.50E-06	1.30E-05	6.64E-08	1.92E-07
Endrin Ketone	2.02E-06	4.50E-06 0	.00E+00	0.00E+00	3.08E-06	6.87E-06	4.55E-08	1.01E-07
Fluoranthene	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fluorene	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
gamma-Chlordane	1.19E-05	2.92E-05 0	.00E+00	0.00E+00	1.82E-05	4.47E-05	2.68E-07	6.60E-07
Indeno(1,2,3-cd)pyrene	2.75E-02	5.69E-02 2	2.94E-02	6.09E-02	4.57E-02	9.46E-02	7.84E-04	1.62E-03
Lead	0.00E+00	0.00E+00 1	.61E+00	3.12E+00	9.66E-03	1.88E-02	6.54E-03	1.27E-02
Molybdenum	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Naphthalene	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nickel	0.00E+00	0.00E+00 2	2.35E-01	2.47E-01	4.24E-02	4.46E-02	1.46E-03	1.54E-03
Phenanthrene	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pyrene	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Strontium	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Titanium	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vanadium	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zinc	1.74E+00	3.27E+00 2	.43E+02	4.57E+02	2.34E-02	4.40E-02	9.78E-01	1.84E+00
LPAH	3.24E-02	1.61E-01 7	7.07E-02	3.51E-01	5.37E-02	2.67E-01	1.07E-03	5.29E-03
HPAH	1.07E-01	2.94E-01 2	2.33E-01	6.41E-01	1.77E-01	4.87E-01	3.51E-03	9.67E-03
TOTAL PAHs	0.00E+00	0.00E+00 0	.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL INTAKE

INTAKE = Soil Intake + Food Intake

	TOTAL	TOTAL
	Average	RME
Chemical	Intake	Intake
2-Methylnaphthalene	7.26E-05	3.55E-04
4,4-DDD	4.96E-05	3.23E-04
4,4'-DDE	1.10E-05	3.50E-05
4,4'-DDT	2.40E-05	8.10E-05
Acenaphthene	4.36E-05	1.20E-04
Acenaphthylene	4.37E-05	1.19E-04
Anthracene	9.09E-05	2.18E-04
Aroclor-1254	1.21E-03	4.38E-03
Benzo(a)anthracene	3.39E-04	1.09E-03
Benzo(a)pyrene	5.61E-04	1.63E-03
Benzo(b)fluoranthene	7.78E-04	2.10E-03
Benzo(g,h,i)perylene	2.61E-04	5.67E-04
Benzo(k)fluoranthene	2.68E-04	6.46E-04
Boron	5.00E-03	7.68E-03
Chrysene	4.32E-04	1.24E-03
Cobalt	4.31E-03	4.58E-03
Copper	2.91E-02	5.63E-02
Dibenz(a,h)anthracene	2.37E-04	4.95E-04
Dieldrin	5.40E-05	1.26E-04
Endrin Aldehyde	2.04E-06	5.91E-06
Endrin Ketone	1.40E-06	3.12E-06
Fluoranthene	6.18E-04	1.96E-03
Fluorene	4.60E-05	1.11E-04
gamma-Chlordane	9.86E-07	2.43E-06
Indeno(1,2,3-cd)pyrene	1.17E-03	2.41E-03
Lead	6.22E-02	1.21E-01

# TABLE C-7 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN RAT SNAKE

Molybdenum	9.26E-04	1.67E-03	
Naphthalene	3.36E-04	2.89E-03	
Nickel	1.37E-02	1.44E-02	
Phenanthrene	4.17E-04	1.40E-03	
Pyrene	4.49E-04	1.34E-03	
Strontium	7.86E-02	1.05E-01	
Titanium	2.68E-02	3.35E-02	
Vanadium	1.50E-02	1.58E-02	
Zinc	1.43E+00	2.69E+00	
LPAH	2.12E-03	1.05E-02	
HPAH	6.96E-03	1.92E-02	
TOTAL PAHs	9.08E-03	2.97E-02	

Notes:
\* Soil ingestion was assumed to be 5.2% of dietary intake per other reptiles listed in EPA, 1993.

## TABLE C-8 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN AMERICAN ROBIN

SOIL INGESTION						
NTAKE = (Sc * IR * AF * AUF)	(BW)					
arameter	Definition				Value	Reference
ntake	Intake of chemical (	ma/ka-dav)			calculated	
Sc	Soil concentration (r	0 0 7/			see data page	
₹	Ingestion rate of soil				1.14E-03	EPA, 1999 (normalized for b
AF	Chemical Bioavailat	( ) )/	(s)		1	EPA, 1997
\UF	Area Use Factor	onity in son (unities	13)		1	EPA, 1997
BW	Body weight (kg)				8.00E-02	EPA, 1999
5VV	Body Weight (kg)				0.00L-02	LI A, 1999
		Average		RME	Average	RME
Chemical		Sc		Sc	Intake	Intake
-Methylnaphthalene		2.93E-02		7.84E-02	4.18E-04	1.12E-03
,4-DDD		7.89E-04		2.90E-03	1.12E-05	4.13E-05
,4'-DDE		1.90E-03		7.40E-03	2.71E-05	1.05E-04
,4'-DDT		3.80E-03		1.40E-02	5.42E-05	2.00E-04
cenaphthene		5.95E-02		1.97E-01	8.48E-04	2.81E-03
•						
cenaphthylene		3.82E-02		1.13E-01	5.44E-04	1.61E-03
nthracene		9.61E-02		2.97E-01	1.37E-03	4.23E-03
roclor-1254		1.37E-01		7.26E-01	1.95E-03	1.03E-02
enzo(a)anthracene		3.45E-01		1.21E+00	4.92E-03	1.73E-02
senzo(a)pyrene		4.57E-01		1.46E+00	6.51E-03	2.08E-02
senzo(b)fluoranthene		5.82E-01		1.64E+00	8.29E-03	2.33E-02
senzo(g,h,i)perylene		3.24E-01		1.10E+00	4.62E-03	1.56E-02
senzo(k)fluoranthene		2.40E-01		6.51E-01	3.42E-03	9.28E-03
oron		4.66E+00		9.66E+00	6.64E-02	1.38E-01
hrysene		4.09E-01		1.32E+00	5.83E-03	1.88E-02
obalt		3.71E+00		4.78E+00	5.28E-02	6.81E-02
opper		2.80E+01		3.25E+01	3.99E-01	4.62E-01
ibenz(a,h)anthracene		1.55E-01		3.63E-01	2.21E-03	5.17E-03
ieldrin		9.97E-04		3.00E-03	1.42E-05	4.28E-05
ndrin Aldehyde		2.30E-03		8.40E-03	3.28E-05	1.20E-04
Indrin Ketone		1.60E-03		4.00E-03	2.28E-05	5.70E-05
Tuoranthene		7.99E-01		2.66E+00	1.14E-02	3.78E-02
luorene		5.15E-02		1.55E-01	7.34E-04	2.21E-03
amma-Chlordane		8.27E-04		2.50E-03	1.18E-05	3.56E-05
deno(1,2,3-cd)pyrene		4.70E-01		1.12E+00	6.70E-03	1.59E-02
ead		6.96E+01		8.45E+01	9.92E-01	1.20E+00
lolybdenum		1.31E+00		1.65E+00	1.86E-02	2.34E-02
aphthalene		0.00E+00		0.00E+00	0.00E+00	0.00E+00
ickel		1.16E+01		1.25E+01	1.66E-01	1.79E-01
henanthrene		5.12E-01		2.20E+00	7.30E-03	3.13E-02
yrene		5.33E-01		1.37E+00	7.60E-03	1.95E-02
trontium		7.06E+01		1.01E+02	1.01E+00	1.44E+00
itanium		2.98E+01		6.30E+01	4.25E-01	8.98E-01
anadium		1.38E+01		1.48E+01	1.96E-01	2.11E-01
inc		6.01E+02		7.28E+02	8.57E+00	1.04E+01
PAH		7.87E-01		3.04E+00	1.12E-02	4.33E-02
PAH		4.31E+00		1.29E+01	6.15E-02	1.83E-01
OTAL PAHs		5.10E+00		1.59E+01	7.27E-02	2.27E-01
OOD INGESTION						
NTAKE = ((Ce * IR * Dfe * AUF	/(BW) + (Ca * IR * DFa * AU	F) / (BW) + ((Cp *	IR * DFs *AU	=)/(BW))		
	- 4	, , , , , , ,		, , ,,		
arameter	Definition				Value	Reference
take	Intake of chemical (	0 0 77			calculated	
e	Earthworm concentr	ation (mg/kg)			see FoodConc page	<b>)</b>
a	Arthropod concentra	ation (mg/kg)			see FoodConc page	9
p	Plant concentration				see FoodConc page	
r {	Ingestion rate of of f				3.52E-02	EPA, 1999 (normalized for b
fe	Dietary fraction of ea		s)		4.60E-01	EPA, 1993
	-	*	,			
fa ,	Dietary fraction of a				4.60E-01	EPA, 1993
fs	Dietary fraction of pl	ants, seeds and ot	tner vegetatio	n (unitless)	8.00E-02	EPA, 1993
UF	Area Use Factor				1	EPA, 1997
3W	Body weight (kg)				8.00E-02	EPA, 1999
	erage RME Avera		Average	RME	Average	RME
Chemical Eart	hworm Earthworm Arthro	poa Artnropod	Plant	Plant	Intake	Intake

## TABLE C-8 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN AMERICAN ROBIN

2-Methylnaphthalene	0.00E+00	0.00E+00 0	005.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2-Methylnaphthalene 4.4-DDD				6.27E-02	7.18E-05		0.00E+00 3.91E-03	
4,4-DDD 4.4'-DDE	9.65E-03 2.14E-03		9.65E-03 2.14E-03	6.27E-02 6.80E-03	7.18E-05 1.59E-05	4.67E-04 5.06E-05		2.54E-02 2.76E-03
,							8.68E-04	
4,4'-DDT	4.66E-03		4.66E-03	1.58E-02	3.47E-05	1.17E-04	1.89E-03	6.38E-03
Acenaphthene	0.00E+00	0.00E+00 0		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acenaphthylene	0.00E+00	0.00E+00 0		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Anthracene	0.00E+00	0.00E+00 0		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Aroclor-1254	2.32E-01		2.32E-01	8.36E-01	2.05E-03	7.40E-03	9.38E-02	3.39E-01
Benzo(a)anthracene	8.04E-03		8.04E-03	2.58E-02	5.41E-03	1.74E-02	3.45E-03	1.10E-02
Benzo(a)pyrene	2.43E-02		2.43E-02	7.06E-02	3.50E-03	1.02E-02	9.96E-03	2.89E-02
Benzo(b)fluoranthene	3.26E-02	8.79E-02		8.79E-02	4.71E-03	1.27E-02	1.34E-02	3.60E-02
Benzo(g,h,i)perylene	0.00E+00	0.00E+00 0		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(k)fluoranthene	1.26E-02	3.02E-02		3.02E-02	1.59E-03	3.82E-03	5.14E-03	1.24E-02
Boron	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chrysene	1.31E-02	3.75E-02	1.31E-02	3.75E-02	6.11E-03	1.75E-02	5.51E-03	1.58E-02
Cobalt	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Copper	9.70E-01	1.88E+00 9	9.70E-01	1.88E+00	9.70E+00	1.88E+01	7.34E-01	1.42E+00
Dibenz(a,h)anthracene	7.91E-03	1.65E-02	7.91E-03	1.65E-02	7.23E-04	1.51E-03	3.23E-03	6.74E-03
Dieldrin	1.32E-02	3.09E-02	1.32E-02	3.09E-02	3.14E-05	7.33E-05	5.36E-03	1.25E-02
Endrin Aldehyde	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	1.09E-04	3.17E-04	3.85E-06	1.12E-05
Endrin Ketone	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	7.49E-05	1.67E-04	2.64E-06	5.88E-06
Fluoranthene	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fluorene	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
gamma-Chlordane	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	9.87E-06	2.43E-05	3.48E-07	8.56E-07
Indeno(1,2,3-cd)pyrene	2.94E-02	6.09E-02 2	2.94E-02	6.09E-02	1.44E-03	2.97E-03	1.20E-02	2.47E-02
Lead	1.61E+00	3.12E+00 1	1.61E+00	3.12E+00	2.41E+00	4.68E+00	7.35E-01	1.43E+00
Molybdenum	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Naphthalene	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nickel	2.35E-01	2.47E-01 2	2.35E-01	2.47E-01	3.76E-01	3.96E-01	1.08E-01	1.14E-01
Phenanthrene	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pyrene	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Strontium	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Titanium	0.00E+00	0.00E+00 0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vanadium	0.00E+00	0.00E+00 0		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zinc	2.43E+02	4.57E+02 2		4.57E+02	5.21E-10	9.78E-10	9.83E+01	1.85E+02
LPAH	7.07E-02	3.51E-01		3.51E-01	2.04E-02	1.01E-01	2.93E-02	1.46E-01
HPAH	2.33E-01	6.41E-01 2		6.41E-01	6.71E-02	1.85E-01	9.65E-02	2.66E-01
TOTAL PAHs	0.00E+00	0.00E+00 0		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
				,-				

TOTAL INTAKE

INTAKE = Soil Intake + Food Intake

	TOTAL	TOTAL
	Average	RME
Chemical	Intake	Intake
2-Methylnaphthalene	4.18E-04	1.12E-03
4,4-DDD	3.92E-03	2.55E-02
4,4'-DDE	8.95E-04	2.86E-03
4,4'-DDT	1.94E-03	6.58E-03
Acenaphthene	8.48E-04	2.81E-03
Acenaphthylene	5.44E-04	1.61E-03
Anthracene	1.37E-03	4.23E-03
Aroclor-1254	9.58E-02	3.49E-01
Benzo(a)anthracene	8.36E-03	2.83E-02
Benzo(a)pyrene	1.65E-02	4.97E-02
Benzo(b)fluoranthene	2.17E-02	5.94E-02
Benzo(g,h,i)perylene	4.62E-03	1.56E-02
Benzo(k)fluoranthene	8.56E-03	2.17E-02
Boron	6.64E-02	1.38E-01
Chrysene	1.13E-02	3.46E-02
Cobalt	5.28E-02	6.81E-02
Copper	1.13E+00	1.88E+00
Dibenz(a,h)anthracene	5.44E-03	1.19E-02
Dieldrin	5.38E-03	1.25E-02
Endrin Aldehyde	3.66E-05	1.31E-04
Endrin Ketone	2.54E-05	6.29E-05
Ethylbenzene	0.00E+00	0.00E+00
Fluoranthene	1.14E-02	3.78E-02
Fluorene	7.34E-04	2.21E-03
gamma-Chlordane	1.21E-05	3.65E-05
Indeno(1,2,3-cd)pyrene	1.87E-02	4.06E-02

## TABLE C-8 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN AMERICAN ROBIN

Lead	1.73E+00	2.63E+00	
Molybdenum	1.86E-02	2.34E-02	
Naphthalene	0.00E+00	0.00E+00	
Nickel	2.74E-01	2.93E-01	
Phenanthrene	7.30E-03	3.13E-02	
Pyrene	7.60E-03	1.95E-02	
Strontium	1.01E+00	1.44E+00	
Titanium	4.25E-01	8.98E-01	
Vanadium	1.96E-01	2.11E-01	
Zinc	1.07E+02	1.95E+02	
LPAH	4.05E-02	1.89E-01	
НРАН	1.58E-01	4.49E-01	
TOTAL PAHs	1.99E-01	6.38E-01	

# **TABLE C-9**

### INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN **RED-TAILED HAWK** FOOD INGESTION INTAKE = ((Cm \* IR \* Dfm \* AUF)/(BW) + (Cb \* IR \* DFb \* AUF) / (BW)) Parameter Definition Value Reference Intake of chemical (mg/kg-day) Intake calculated see FoodConc page Mammal concentration (mg/kg) Cm Bird concentration (mg/kg) see FoodConc page Cb 1.78E-01 IR Ingestion rate of of food (kg/day) EPA, 1999 (normalized for bw) Dfm Dietary fraction of small mammals (unitless) 7.85E-01 EPA, 1993 EPA, 1993 Dfb Dietary fraction of birds (unitless) 2.15E-01 AUF Area Use Factor EPA, 1997 BW Body weight (kg) 9.60E-01 EPA, 1999 Average RME Average RME Average **RME** Mammal Mammal Bird Bird Intake Intake Chemical 2-Methylnaphthalene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.36E-03 4 4-DDD 2 09F-04 1.26F-04 8 17F-04 3.53F-05 2 30F-04 4,4'-DDE 4.64E-05 1.47E-04 2.79E-05 8.86E-05 7.84E-06 2.49E-05 4,4'-DDT 1.01E-04 3.41E-04 6.07E-05 2.05E-04 1.71E-05 5.77E-05 0.00E+00 0.00E+00 0.00E+00 Acenaphthene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Acenaphthylene 0.00E+00 0.00E+00 0.00F+00 0.00F+00 0.00F+00 Anthracene 0.00E+00 Aroclor-1254 4.99E-03 1.80E-02 3.00E-03 1.08E-02 8.45E-04 3.05E-03 Benzo(a)anthracene 1.93E-03 6.19E-03 1.16E-03 3.72E-03 3.27E-04 1.05E-03 Benzo(a)pyrene 7.06E-03 2.05E-02 4.26E-03 1.24E-02 1.19E-03 3.47E-03 Benzo(b)fluoranthene 1.12E-02 3.02E-02 6.73E-03 1.81E-02 1.90E-03 5.11E-03 Benzo(g,h,i)perylene 0.00E+00 0.00E+00 0.00E+00 0.00E+000.00F+00 0.00E+00Benzo(k)fluoranthene 3.76E-03 9.06E-03 2.25E-03 5.42E-03 6.36E-04 1.53E-03 Boron 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00F+00 0.00E+00 Chrysene 2.71E-03 7.78E-03 1.63E-03 4.69E-03 4.59E-04 1.32E-03 Cobalt 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Copper 0.00F+00 0.00F+00 0.00F+00 0.00F+00 Dibenz(a,h)anthracene 6.01E-03 1.26E-02 3.63E-03 7.58E-03 1.02E-03 2.13E-03 1.19E-05 3.31E-06 2.03E-06 5.09F-06 7.73F-06 8 71F-07 Dieldrin Endrin Aldehyde 4.50E-06 1.30E-05 2.95E-06 8.53E-06 7.71E-07 2.23E-06 Endrin Ketone 3.08E-06 6.87E-06 2.02E-06 4.50E-06 5.28E-07 1.18E-06 Ethylbenzene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

Fluoranthene

Molybdenum

Naphthalene

Phenanthrene

Indeno(1,2,3-cd)pyrene

Fluorene gamma-Chlordane

Lead

Nickel

Pyrene

Strontium

Vanadium

TOTAL PAHs

Titanium

7inc

LPAH

HPAH

0.00E+00

0.00F+00

1.82E-05

4.57E-02

9.66E-03

0.00E+00

0.00E+00

4.24E-02

0.00E+00

0.00E+00

0.00E+00

0.00E+00

0.00E+00

2.34E-02

5.37E-02

1.77E-01

0.00F+00

0.00E+00

0.00F+00

4.47E-05

9.46E-02

1.88E-02

0.00E+00

0.00E+00

4.46E-02

0.00E+00

0.00E+00

0.00E+00

0.00E+00

0.00E+00

4.40E-02

2.67E-01

4.87E-01

0.00F+00

0.00E+00

0.00E+00

1.19E-05

2.75E-02

0.00E+00

0.00E+00

0.00E+00

0.00E+00

0.00E+00

0.00E+00

0.00F+00

0.00E+00

0.00E+00

1.74E+00

3.24E-02

1.07E-01

0.00F+00

0.00E+00

0.00F+00

2.92E-05

5.69E-02

0.00E+00

0.00E+00

0.00F+00

0.00E+00

0.00E+00

0.00E+00

0.00E+00

0.00E+00

0.00E+00

3.27E+00

1.61E-01

2.94E-01

0.00F+00

0.00E+00

0.00F+00

3.11E-06

7.74E-03

1.40E-03

0.00E+00

0.00E+00

6.15E-03

0.00E+00

0.00E+00

0.00E+00

0.00E+00

0.00E+00

7 27F-02

9.09E-03

2.99E-02

0.00F+00

0.00E+00

0.00F+00

7.66E-06

1.60E-02

2.73E-03

0.00E+00

0.00E+00

6.48E-03

0.00E+00

0.00E+00

0.00E+00

0.00E+00

0.00E+00

1.37E-01

4.51E-02

8.25E-02

0.00E+00

## TABLE C-10 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL SOUTH OF MARLIN DEER MOUSE

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default

Intake TRV see Intake

see TRV summary page

	Average	RME	TRV	Average	RME
Chemical	Intake	Intake	(deer mouse)	EHQ	EHQ
2-Methylnaphthalene	1.00E-04	4.91E-04			
4,4-DDD	3.27E-03	2.13E-02	1.47E-01	2.22E-02	1.45E-01
4.4'-DDE	7.26E-04	2.30E-03	1.47E-01	4.94E-03	1.57E-02
4,4'-DDT	1.58E-03	5.33E-03	1.47E-01	1.07E-02	3.63E-02
Acenaphthene	6.03E-05	1.66E-04			****
Acenaphthylene	6.04E-05	1.64E-04			
Anthracene	1.26E-04	3.02E-04			
Aroclor-1254	7.86E-02	2.84E-01	1.55E-01	5.07E-01	1.83E+00
Benzo(a)anthracene	4.51E-03	1.45E-02			
Benzo(a)pyrene	9.58E-03	2.78E-02			
Benzo(b)fluoranthene	1.29E-02	3.47E-02			
Benzo(g,h,i)perylene	3.61E-04	7.84E-04			
Benzo(k)fluoranthene	4.86E-03	1.17E-02			
Boron	6.92E-03	1.06E-02			
Chrysene	6.47E-03	1.86E-02			
Cobalt	5.96E-03	6.34E-03			
Copper	2.92E+00	5.65E+00	5.60E+00	5.21E-01	1.01E+00
Dibenz(a,h)anthracene	3.01E-03	6.28E-03			
Dieldrin	4.45E-03	1.04E-02	1.50E-02	2.97E-01	6.92E-01
Endrin Aldehyde	3.16E-05	9.15E-05	9.20E-02	3.43E-04	9.94E-04
Endrin Ketone	2.16E-05	4.82E-05	9.20E-02	2.35E-04	5.24E-04
Ethylbenzene	5.47E-06	1.83E-05			
Fluoranthene	8.55E-04	2.71E-03			
Fluorene	6.36E-05	1.54E-04			
gamma-Chlordane	3.60E-06	8.86E-06	4.60E+00	7.82E-07	1.93E-06
Indeno(1,2,3-cd)pyrene	1.08E-02	2.23E-02			
Lead	1.25E+00	2.43E+00	4.70E+00	2.66E-01	5.17E-01
Molybdenum	1.28E-03	2.32E-03			
Naphthalene	4.65E-04	3.99E-03			
Nickel	1.95E-01	2.05E-01	1.70E+00	1.15E-01	1.21E-01
Phenanthrene	5.77E-04	1.94E-03			
Pyrene	6.22E-04	1.86E-03			
Strontium	1.09E-01	1.45E-01			
Titanium	3.71E-02	4.64E-02			
Vanadium	2.07E-02	2.18E-02	4.16E+00	4.98E-03	5.25E-03
Zinc	8.22E+01	1.54E+02	7.54E+01	1.09E+00	2.05E+00
LPAH	3.05E-02	1.52E-01	6.56E+01	4.66E-04	2.31E-03
HPAH	1.01E-01	2.77E-01	6.15E-01	1.63E-01	4.51E-01
TOTAL PAHs	1.31E-01	4.29E-01			

# TABLE C-11 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL SOUTH OF MARLIN COYOTE

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default see Intake

Intake TRV see TRV summary page

	Average	RME	TRV	Average	RME
Chemical	Intake	Intake	Coyote	EHQ	EHQ
2-Methylnaphthalene	0.00E+00	0.00E+00			
4,4-DDD	1.88E-05	1.22E-04	1.47E-01	1.28E-04	8.32E-04
4,4'-DDE	4.17E-06	1.33E-05	1.47E-01 1.47E-01	2.84E-05	9.02E-05
4,4'-DDT	9.08E-06	3.07E-05	1.47E-01	6.18E-05	2.09E-04
Acenaphthene	0.00E+00	0.00E+00	1.47 = 01	0.10L-00	2.03L-04
Acenaphthylene	0.00E+00	0.00E+00			
Anthracene	0.00E+00	0.00E+00			
Aroclor-1254	4.50E-04	1.62E-03	1.55E-01	2.90E-03	1.05E-02
Benzo(a)anthracene	1.74E-04	5.57E-04	1.55L-01	2.90L-03	1.03L-02
Benzo(a)pyrene	6.36E-04	1.85E-03			
Benzo(b)fluoranthene	1.01E-03	2.72E-03			
Benzo(g,h,i)perylene	0.00E+00	0.00E+00			
Benzo(k)fluoranthene	3.38E-04	8.15E-04			
Boron	0.00E+00	0.00E+00			
Chrysene	2.44E-04	7.00E-04			
Cobalt	0.00E+00	0.00E+00			
Copper	0.00E+00	0.00E+00	5.60E+00	0.00E+00	0.00E+00
Dibenz(a,h)anthracene	5.42E-04	1.13E-03	0.002100	0.002100	0.002100
Dieldrin	4.65E-07	1.08E-06	1.50E-02	3.10E-05	7.22E-05
Endrin Aldehyde	4.11E-07	1.19E-06	9.20E-02	4.47E-06	1.29E-05
Endrin Ketone	2.81E-07	6.28E-07	9.20E-02	3.06E-06	6.82E-06
Ethylbenzene	0.00E+00	0.00E+00			******
Fluoranthene	0.00E+00	0.00E+00			
Fluorene	0.00E+00	0.00E+00			
gamma-Chlordane	1.66E-06	4.08E-06	4.60E+00	3.61E-07	8.88E-07
Indeno(1,2,3-cd)pyrene	4.12E-03	8.52E-03			
Lead	7.24E-04	1.41E-03	4.70E+00	1.54E-04	2.99E-04
Molybdenum	0.00E+00	0.00E+00			
Naphthalene	0.00E+00	0.00E+00			
Nickel	3.18E-03	3.35E-03	1.70E+00	1.87E-03	1.97E-03
Phenanthrene	0.00E+00	0.00E+00			
Pyrene	0.00E+00	0.00E+00			
Strontium	0.00E+00	0.00E+00			
Titanium	0.00E+00	0.00E+00			
Vanadium	0.00E+00	0.00E+00	4.16E+00	0.00E+00	0.00E+00
Zinc	4.53E-02	8.51E-02	7.54E+01	6.01E-04	1.13E-03
LPAH	4.84E-03	2.40E-02	6.56E+01	7.38E-05	3.66E-04
HPAH	1.59E-02	4.39E-02	6.15E-01	2.59E-02	7.14E-02
TOTAL PAHs	0.00E+00	0.00E+00			

## TABLE C-12 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL SOUTH OF MARLIN RAT SNAKE

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default

Intake TRV see Intake

see TRV summary page

	Average	RME	TRV	Average	RME
Chemical	Intake	Intake	Rat Snake	EHQ	EHQ
2-Methylnaphthalene	7.26E-05	3.55E-04			
4,4-DDD	4.96E-05	3.23E-04	2.27E-01	2.19E-04	1.42E-03
4,4'-DDE	1.10E-05	3.50E-05	2.27E-01	4.85E-05	1.54E-04
4.4'-DDT	2.40E-05	8.10E-05	2.27E-01	1.06E-04	3.57E-04
Acenaphthene	4.36E-05	1.20E-04	2.272 01	1.002 04	0.07 = 04
Acenaphthylene	4.37E-05	1.19E-04			
Anthracene	9.09E-05	2.18E-04			
Aroclor-1254	1.21E-03	4.38E-03	1.80E-01	6.74E-03	2.43E-02
Benzo(a)anthracene	3.39E-04	1.09E-03	1.006-01	0.7 <del>1</del> L=03	2.70∟-02
Benzo(a)pyrene	5.61E-04	1.63E-03			
Benzo(b)fluoranthene	7.78E-04	2.10E-03			
Benzo(g,h,i)perylene	2.61E-04	5.67E-04			
Benzo(k)fluoranthene	2.68E-04	6.46E-04			
Boron	5.00E-03	7.68E-03			
Chrysene	4.32E-04	1.24E-03			
Cobalt	4.31E-03	4.58E-03			
Copper	2.91E-02	5.63E-02	4.05E+00	7.19E-03	1.39E-02
Dibenz(a,h)anthracene	2.37E-04	4.95E-04	1.002100	7.102 00	1.002 02
Dieldrin	5.40E-05	1.26E-04	7.09E-02	7.61E-04	1.77E-03
Endrin Aldehyde	2.04E-06	5.91E-06	1.00E-02	2.04E-04	5.91E-04
Endrin Ketone	1.40E-06	3.12E-06	1.00E-02	1.40E-04	3.12E-04
Ethylbenzene	3.95E-06	1.32E-05	1.002 02	1.402 04	0.122 04
Fluoranthene	6.18E-04	1.96E-03			
Fluorene	4.60E-05	1.11E-04			
gamma-Chlordane	9.86E-07	2.43E-06	2.14E+00	4.61E-07	1.13E-06
Indeno(1,2,3-cd)pyrene	1.17E-03	2.41E-03	2.112100	1.012 01	1.102 00
Lead	6.22E-02	1.21E-01	1.63E+00	3.82E-02	7.42E-02
Molybdenum	9.26E-04	1.67E-03	1.002100	0.022 02	7.72L V2
Naphthalene	3.36E-04	2.89E-03			
Nickel	1.37E-02	1.44E-02	6.71E+00	2.04E-03	2.15E-03
Phenanthrene	4.17E-04	1.40E-03	5.7 12 100	2.012 00	2.102 00
Pyrene	4.49E-04	1.34E-03			
Strontium	7.86E-02	1.05E-01			
Titanium	2.68E-02	3.35E-02			
Vanadium	1.50E-02	1.58E-02	3.44E-01	4.35E-02	4.59E-02
Zinc	1.43E+00	2.69E+00	6.61E+01	2.16E-02	4.06E-02
LPAH	2.12E-03	1.05E-02	6.56E+01	3.22E-05	1.60E-04
HPAH	6.96E-03	1.92E-02	6.15E-01	1.13E-02	3.12E-02
TOTAL PAHs	9.08E-03	2.97E-02	55= 5.		52

# TABLE C-13 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL SOUTH OF MARLIN AMERICAN ROBIN

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default see Intake

Intake TRV see TRV summary page

Chemical	Average Intake	RME Intake	TRV American Robin	Average EHQ	RME EHQ
/nemical	IIIIanc	IIIIanc	Allicitedii Nobili	LIIQ	LIIQ
2-Methylnaphthalene	4.18E-04	1.12E-03			
4,4-DDD	3.92E-03	2.55E-02	2.27E-01	1.73E-02	1.12E-01
4,4'-DDE	8.95E-04	2.86E-03	2.27E-01	3.94E-03	1.26E-02
4,4'-DDT	1.94E-03	6.58E-03	2.27E-01	8.56E-03	2.90E-02
Acenaphthene	8.48E-04	2.81E-03			
Acenaphthylene	5.44E-04	1.61E-03			
Anthracene	1.37E-03	4.23E-03			
Aroclor-1254	9.58E-02	3.49E-01	1.80E-01	5.32E-01	1.94E+00
Benzo(a)anthracene	8.36E-03	2.83E-02		0.022 0.	
Benzo(a)pyrene	1.65E-02	4.97E-02			
Benzo(b)fluoranthene	2.17E-02	5.94E-02			
Benzo(g,h,i)perylene	4.62E-03	1.56E-02			
Benzo(k)fluoranthene	8.56E-03	2.17E-02			
Boron	6.64E-02	1.38E-01			
Chrysene	1.13E-02	3.46E-02			
Cobalt	5.28E-02	6.81E-02			
Copper	1.13E+00	1.88E+00	4.05E+00	2.80E-01	4.65E-01
Dibenz(a,h)anthracene	5.44E-03	1.19E-02	1.002 100	2.002 01	1.002 01
Dieldrin	5.38E-03	1.25E-02	7.09E-02	7.58E-02	1.77E-01
Endrin Aldehyde	3.66E-05	1.31E-04	1.00E-02	3.66E-03	1.31E-02
Endrin Ketone	2.54E-05	6.29E-05	1.00E-02	2.54E-03	6.29E-03
Fluoranthene	1.14E-02	3.78E-02	1.002 02	2.012 00	0.202 00
Fluorene	7.34E-04	2.21E-03			
gamma-Chlordane	1.21E-05	3.65E-05	2.14E+00	5.67E-06	1.70E-05
ndeno(1,2,3-cd)pyrene	1.87E-02	4.06E-02	2.142100	0.07 = 00	1.702 00
Lead	1.73E+00	2.63E+00	1.63E+00	1.06E+00	1.61E+00
Molybdenum	1.86E-02	2.34E-02	1.00L+00	1.002	1.012+00
Naphthalene	0.00E+00	0.00E+00			
Nickel	2.74E-01	2.93E-01	6.71E+00	4.09E-02	4.36E-02
Phenanthrene	7.30E-03	3.13E-02	0.7 12 100	7.00L 0Z	7.002 02
Pyrene	7.60E-03	1.95E-02			
Strontium	1.01E+00	1.44E+00			
Titanium	4.25E-01	8.98E-01			
Vanadium	1.96E-01	2.11E-01	3.44E-01	5.70E-01	6.15E-01
Zinc	1.96E-01 1.07E+02	1.95E+02	5.44E-01 6.61E+01	1.62E+00	2.95E+00
LPAH	4.05E-02	1.89E-01	6.56E+01	6.18E-04	2.88E-03
-PAH HPAH	4.05E-02 1.58E-01	4.49E-01			
HPAH TOTAL PAHs			6.15E-01	2.57E-01	7.31E-01
TOTAL PARS	1.99E-01	6.38E-01			

## TABLE C-14 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL SOUTH OF MARLIN **RED-TAILED HAWK**

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default see Intake

Intake TRV

see TRV summary page

Chemical	Intake	RME Intake	TRV Red-Tailed Hawk	Average EHQ	RME EHQ
	intare	intake	iteu-raileu riawk	Lilia	LIIQ
2-Methylnaphthalene	0.00E+00	0.00E+00			
1,4-DDD	3.53E-05	2.30E-04	2.27E-01	1.56E-04	1.01E-03
1,4'-DDE	7.84E-06	2.49E-05	2.27E-01	3.45E-05	1.10E-04
1,4'-DDT	1.71E-05	5.77E-05	2.27E-01	7.52E-05	2.54E-04
Acenaphthene	0.00E+00	0.00E+00			
Acenaphthylene	0.00E+00	0.00E+00			
Anthracene	0.00E+00	0.00E+00			
Aroclor-1254	8.45E-04	3.05E-03	1.80E-01	4.69E-03	1.69E-02
Benzo(a)anthracene	3.27E-04	1.05E-03			
Benzo(a)pyrene	1.19E-03	3.47E-03			
Benzo(b)fluoranthene	1.90E-03	5.11E-03			
Benzo(g,h,i)perylene	0.00E+00	0.00E+00			
Benzo(k)fluoranthene	6.36E-04	1.53E-03			
Boron	0.00E+00	0.00E+00			
Chrysene	4.59E-04	1.32E-03			
Cobalt	0.00E+00	0.00E+00			
Copper	0.00E+00	0.00E+00	4.05E+00	0.00E+00	0.00E+00
Dibenz(a,h)anthracene	1.02E-03	2.13E-03		0.002.00	0.002.00
Dieldrin	8.71E-07	2.03E-06	7.09E-02	1.23E-05	2.86E-05
Endrin Aldehyde	7.71E-07	2.23E-06	1.00E-02	7.71E-05	2.23E-04
Endrin Ketone	5.28E-07	1.18E-06	1.00E-02	5.28E-05	1.18E-04
Fluoranthene	0.00E+00	0.00E+00		0.202 00	
Fluorene	0.00E+00	0.00E+00			
gamma-Chlordane	3.11E-06	7.66E-06	2.14E+00	1.45E-06	3.58E-06
ndeno(1,2,3-cd)pyrene	7.74E-03	1.60E-02	2.112.00	1.102 00	0.002 00
_ead	1.40E-03	2.73E-03	1.63E+00	8.60E-04	1.67E-03
Molybdenum	0.00E+00	0.00E+00	1.03E+00	0.001-04	1.07 = 00
Naphthalene	0.00E+00	0.00E+00			
Nickel	6.15E-03	6.48E-03	6.71E+00	9.17E-04	9.66E-04
Phenanthrene	0.00E+00	0.40E+00	0.7 12+00	3.17L-04	3.000-04
Pyrene	0.00E+00	0.00E+00			
Strontium	0.00E+00	0.00E+00			
Fitanium	0.00E+00	0.00E+00			
/anadium	0.00E+00	0.00E+00	3.44E-01	0.00E+00	0.00E+00
Zinc	7.27E-02	1.37E-01	6.61E+01	1.10E-03	2.07E-03
_PAH	9.09E-03	4.51E-02	6.56E+01	1.39E-04	6.88E-04
-PAH HPAH	9.09E-03 2.99E-02	4.51E-02 8.25E-02	6.15E-01	4.87E-02	6.88E-04 1.34E-01
TOTAL PAHs	2.99E-02 0.00E+00	8.25E-02 0.00E+00	0.13E-U1	4.01 ⊑-02	1.34⊑-01
TOTAL PARS	0.00E+00	U.UUE+UU			

# TABLE C-15 AVERAGE CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg)

Cfood = Csoil x BCF (or BAF)

Cfood = Csoil = BCF BAF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Bioconcentration Factor (unitless) Bioaccumulation Factor (unitless)

Compound	Average Csoil	Soil to Earthworm	Earthworm Reference	Soil to Arthropod	Arthropod Reference	Soil to Plant	Plant/Fruit/Seed Reference	Plant to Wildlife	Plant to Deer Mouse Reference	Soil to Wildlife	Soil to Deer Mouse Reference	TOTAL DEER MOUSE	Plant to Bird	d Plant to Bird Reference	Soil to Bird	Soil to Bird Reference	
	(mg/kg)	BCF	Concentration	BCF	Concentration	BAF	Concentration	BCF	Concentration	BCF	Concentration	CONCENTRATION	BCF	Concentration	BCF	Concentration	CONCENTRATION
2-Methylnaphthalene	6.98E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
4,4-DDD	7.66E-03	1.26E+00	9.65E-03 EPA, 1999	1.26E+00	9.65E-03 EPA. 1999	9.37E-03	7.18E-05 EPA. 1999	2.72E-02	2.08E-04 EPA. 1999	6.52E-05	4.99E-07 EPA, 1999	2.09E-04	1.59E-02	1.22E-04 EPA. 1999	5.10E-0		
4,4'-DDE	1.70E-03	1.26E+00	2.14E-03 EPA, 1999	1.26E+00	2.14E-03 EPA. 1999	9.37E-03	1.59E-05 EPA. 1999	2.72E-02	4.62E-05 EPA. 1999	6.52E-05	1.11E-07 EPA, 1999	4.64E-05	1.59E-02	2.70E-05 EPA. 1999	5.10E-0		
4,4'-DDT	3.70E-03	1.26E+00	4.66E-03 EPA, 1999	1.26E+00	4.66E-03 EPA. 1999	9.37E-03	3.47E-05 EPA. 1999	2.72E-02	1.01E-04 EPA. 1999	6.52E-05	2.41E-07 EPA, 1999	1.01E-04	1.59E-02	5.88E-05 EPA. 1999	5.10E-0		
Acenaphthene	4.19E-02	1.202100	0.00E+00	1.202100	0.00E+00	3.57 E 00	0.00E+00	2.722 02	0.00E+00	0.022 00	0.00E+00	0.00E+00	1.002 02	0.00E+00	0.10L 0	0.00E+00	0.00E+00
Acenaphthylene	4.20E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Anthracene	8.74E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Aroclor-1254	2.05E-01	1.13E+00	2.32E-01 EPA, 1999	1.13E+00	2.32E-01 EPA. 1999	1.00E-02	2.05E-03 EPA. 1999	2.43E-02	4.98E-03 EPA, 1999	5.83E-05	1,20E-05 EPA, 1999	4.99E-03	1.42E-02	2.91E-03 EPA. 1999	4.55E-0		
Benzo(a)anthracene	2.68E-01	3.00E-02	8.04E-03 EPA, 1999	3.00E-02	8.04E-03 EPA. 1999	2.02E-02	5.41E-03 EPA. 1999	7.19E-03	1.93E-03 EPA. 1999	1.73E-05	4.64E-06 EPA, 1999	1.93E-03	4.20E-03	1.13E-03 EPA. 1999	1.35E-0		
Benzo(a)pyrene	3.47E-01	7.00E-02	2.43E-02 EPA, 1999	7.00E-02	2.43E-02 EPA. 1999	1.01E-02	3.50E-03 EPA. 1999	2.03E-02	7.04E-03 EPA. 1999	4.86E-05	1.69E-05 EPA, 1999	7.06E-03	1.19E-02	4.13E-03 EPA. 1999	3.81E-0		
Benzo(b)fluoranthene	4.66E-01	7.00E-02	3.26E-02 EPA, 1999	7.00E-02	3.26E-02 EPA, 1999	1.01E-02	4.71E-03 EPA, 1999	2.40E-02	1.12E-02 EPA, 1999	5.75E-05	2.68E-05 EPA, 1999	1.12E-02	1.40E-02	6.52E-03 EPA, 1999	4.50E-0		
Benzo(g,h,i)perylene	2.51E-01	7.002 02	0.00E+00	7.002 02	0.00E+00		0.00E+00	2.102 02	0.00E+00	0.702 00	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Benzo(k)fluoranthene	1.57E-01	8.00F-02	1,26E-02 EPA, 1999	8.00F-02	1.26E-02 EPA. 1999	1.01E-02	1.59E-03 EPA. 1999	2.39E-02	3.75E-03 EPA. 1999	5.73E-05	9.00E-06 EPA. 1999	3.76E-03	1.39F-02	2.18E-03 EPA. 1999	4.48E-0		
Boron	4.81E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Chrysene	3.27E-01	4.00E-02	1.31E-02 EPA, 1999	4.00E-02	1.31E-02 EPA. 1999	1.87E-02	6.11E-03 EPA, 1999	8.27E-03	2.70E-03 EPA. 1999	1.99E-05	6.51E-06 EPA, 1999	2.71E-03	4.84F-03	1.58E-03 EPA, 1999	1.55E-0		
Cobalt	4.14E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Copper	2.43E+01	4.00E-02	9.70E-01 EPA, 1999	4.00E-02	9.70E-01 EPA, 1999	4.00E-01	9.70E+00 EPA, 1999		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Dibenz(a.h)anthracene	1.13E-01	7.00E-02	7.91E-03 EPA, 1999	7.00E-02	7.91E-03 EPA, 1999	6.40E-03	7.23E-04 EPA, 1999	5.31E-02	6.00E-03 EPA, 1999	1.27E-04	1,44E-05 EPA, 1999	6.01E-03	3.11E-02	3.51E-03 EPA, 1999	9.98E-0	4 1.13E-04 EPA, 1999	
Dieldrin	9.01E-04	1.47E+01	1.32E-02 EPA, 2005f	1.47E+01	1.32E-02 EPA, 2005f	3.49E-02	3.14E-05 EPA, 1998	5.65E-03	5.09E-06 EPA, 1998		0.00E+00	5.09E-06	3.68E-03	3.31E-06 EPA, 1998		0.00E+00	3.31E-06
Endrin Aldehyde	1.90E-03		0.00E+00		0.00E+00	5.76E-02	1.09E-04 EPA, 1998	2.37E-03	4.50E-06 EPA, 1998		0.00E+00	4.50E-06	1.55E-03	2.95E-06 EPA, 1998		0.00E+00	2.95E-06
Edrin Ketone	1.30E-03		0.00E+00		0.00E+00	5.76E-02	7.49E-05 EPA, 1998	2.37E-03	3.08E-06 EPA, 1998		0.00E+00	3.08E-06	1.55E-03	2.02E-06 EPA, 1998		0.00E+00	2.02E-06
Ethylbenzene	3.80E-03		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Fluoranthene	5.94E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Fluorene	4.42E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
gamma-Chlordane	6.90E-04		0.00E+00		0.00E+00	1.43E-02	9.87E-06 EPA, 1998	2.63E-02	1.82E-05 EPA, 1998		0.00E+00	1.82E-05	1.72E-02	1.19E-05 EPA, 1998		0.00E+00	1.19E-05
Indeno(1,2,3-cd)pyrene	3.68E-01	8.00E-02	2.94E-02 EPA, 1999	8.00E-02	2.94E-02 EPA, 1999	3.90E-03	1.44E-03 EPA, 1999	1.24E-01	4.56E-02 EPA, 1999	2.98E-04	1.10E-04 EPA, 1999	4.57E-02	7.24E-02	2.66E-02 EPA, 1999	2.32E-0	3 8.54E-04 EPA, 1999	2.75E-02
Lead	5.35E+01	3.00E-02	1.61E+00 EPA, 1999	3.00E-02	1.61E+00 EPA, 1999	4.50E-02	2.41E+00 EPA, 1999	1.80E-04	9.63E-03 EPA, 1999	4.32E-07	2.31E-05 EPA, 1999	9.66E-03		0.00E+00		0.00E+00	0.00E+00
Molybdenum	8.90E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Naphthalene	3.23E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Nickel	1.17E+01	2.00E-02	2.35E-01 EPA, 1999	2.00E-02	2.35E-01 EPA, 1999	3.20E-02	3.76E-01 EPA, 1999	3.60E-03	4.23E-02 EPA, 1999	8.63E-06	1.01E-04 EPA, 1999	4.24E-02		0.00E+00		0.00E+00	0.00E+00
Phenanthrene	4.01E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pyrene	4.32E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Strontium	7.56E+01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Titanium	2.58E+01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Vanadium	1.44E+01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Zinc	4.34E+02	5.60E-01	2.43E+02 EPA, 1999	5.60E-01	2.43E+02 EPA, 1999	1.20E-12	5.21E-10 EPA, 1999	5.39E-05	2.34E-02 EPA, 1999	1.29E-07	5.60E-05 EPA, 1999	2.34E-02	3.89E-03	1.69E+00 EPA, 1999	1.25E-0	4 5.42E-02 EPA, 1999	1.74E+00
LPAH	1.01E+00	7.00E-02	7.07E-02 EPA, 1999*	7.00E-02	7.07E-02 EPA, 1999*	2.02E-02	2.04E-02 EPA, 1999*	5.31E-02	5.36E-02 EPA, 1999*	1.27E-04	1.28E-04 EPA, 1999*	5.37E-02	3.11E-02	3.14E-02 EPA, 1999*	9.98E-0	4 1.01E-03 EPA, 1999	9* 3.24E-02
HPAH	3.32E+00	7.00E-02	2.33E-01 EPA, 1999*	7.00E-02	2.33E-01 EPA, 1999*	2.02E-02	6.71E-02 EPA, 1999*	5.31E-02	1.76E-01 EPA, 1999*	1.27E-04	4.22E-04 EPA, 1999*	1.77E-01	3.11E-02	1.03E-01 EPA, 1999*	9.98E-0	4 3.32E-03 EPA, 1999 <sup>6</sup>	
TOTAL PAHs	4.33E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00

Notes:
Does not exceed screening criteria but is considered bioaccumulative.
Exceeds screening criteria but is not considered bioaccumulative.
Exceeds screening criteria and is considered bioaccumulative.
Exceeds screening criteria and is considered bioaccumulative.
For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.
EPA, 2007a - DDT
EPA, 2007b - PAHs
EPA, 2007c - Copper
EPA, 2007c - Copper
EPA, 2007c - Zinc
EPA, 2005a - Antimony
EPA, 2005a - Cadmium
EPA, 2005c - Chromium
EPA, 2005c - Vanadium
EPA, 2005c - Lead

# TABLE C-16 RME CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg)

Cfood = Csoil x BCF (or BAF)

Cfood = Csoil = BCF BAF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Bioconcentration Factor (unitless) Bioaccumulation Factor (unitless)

Compound	RME Csoil (mg/kg)	Soil to Earthworm BCF	Earthworm Reference Concentration	Soil to Arthropod BCF	Arthropod Reference Concentration	Soil to Plant BAF	Plant/Fruit/Seed Reference Concentration	Plant to Wildlife BCF	Plant to Deer Mouse Reference Concentration	Soil to Wildlife BCF	Soil to Deer Mouse Reference Concentration	TOTAL DEER MOUSE CONCENTRATION	Plant to Bir BCF	d Plant to Bird Reference Concentration	Soil to Bird BCF	Soil to Bird Reference Concentration	e TOTAL BIRD CONCENTRATION
2-Methylnaphthalene	3.41E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
4,4-DDD	4.98E-02	1.26E+00	6.27E-02 EPA, 1999	1.26E+00		9.37E-03	4.67E-04 EPA, 1999	2.72E-02	1.35E-03 EPA, 1999	6.52E-05	3.25E-06 EPA, 1999	1.36E-03	1.59E-02	7.92E-04 EPA, 1999	5.10E-0		
4,4'-DDE	5.40E-03	1.26E+00	6.80E-03 EPA, 1999	1.26E+00		9.37E-03	5.06E-05 EPA, 1999	2.72E-02	1.47E-04 EPA, 1999	6.52E-05	3.52E-07 EPA, 1999	1.47E-04	1.59E-02	8.59E-05 EPA, 1999	5.10E-0		
4,4'-DDT	1.25E-02	1.26E+00	1.58E-02 EPA, 1999	1.26E+00		9.37E-03	1.17E-04 EPA, 1999	2.72E-02	3.40E-04 EPA, 1999	6.52E-05	8.15E-07 EPA, 1999	3.41E-04	1.59E-02	1.99E-04 EPA, 1999	5.10E-0		
Acenaphthene	1.15E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Acenaphthylene	1.14E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Anthracene	2.10E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Aroclor-1254	7.40E-01	1.13E+00	8.36E-01 EPA, 1999	1.13E+00		1.00E-02	7.40E-03 EPA, 1999	2.43E-02	1.80E-02 EPA, 1999	5.83E-05	4.31E-05 EPA, 1999	1.80E-02	1.42E-02	1.05E-02 EPA, 1999	4.55E-0		
Benzo(a)anthracene	8.59E-01	3.00E-02	2.58E-02 EPA, 1999	3.00E-02	2.58E-02 EPA, 1999	2.02E-02	1.74E-02 EPA, 1999	7.19E-03	6.18E-03 EPA, 1999	1.73E-05	1.49E-05 EPA, 1999	6.19E-03	4.20E-03	3.61E-03 EPA, 1999	1.35E-0		
Benzo(a)pyrene	1.01E+00	7.00E-02	7.06E-02 EPA, 1999	7.00E-02	7.06E-02 EPA, 1999	1.01E-02	1.02E-02 EPA, 1999	2.03E-02	2.05E-02 EPA, 1999	4.86E-05	4.90E-05 EPA, 1999	2.05E-02	1.19E-02	1.20E-02 EPA, 1999	3.81E-0	3.84E-04 EPA, 1999	
Benzo(b)fluoranthene	1.26E+00	7.00E-02	8.79E-02 EPA, 1999	7.00E-02		1.01E-02	1.27E-02 EPA, 1999	2.40E-02	3.01E-02 EPA, 1999	5.75E-05	7.22E-05 EPA, 1999	3.02E-02	1.40E-02	1.76E-02 EPA, 1999	4.50E-0		
Benzo(g,h,i)perylene	5.45E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Benzo(k)fluoranthene	3.78E-01	8.00E-02	3.02E-02 EPA, 1999	8.00E-02		1.01E-02	3.82E-03 EPA, 1999	2.39E-02	9.03E-03 EPA, 1999	5.73E-05	2.17E-05 EPA, 1999	9.06E-03	1.39E-02	5.25E-03 EPA, 1999	4.48E-0		
Boron	7.39E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Chrysene	9.38E-01	4.00E-02	3.75E-02 EPA, 1999	4.00E-02		1.87E-02	1.75E-02 EPA, 1999	8.27E-03	7.76E-03 EPA, 1999	1.99E-05	1.87E-05 EPA, 1999	7.78E-03	4.84E-03	4.54E-03 EPA, 1999	1.55E-0		
Cobalt	4.41E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Copper	4.69E+01	4.00E-02	1.88E+00 EPA, 1999	4.00E-02	1.88E+00 EPA, 1999	4.00E-01	1.88E+01 EPA, 1999		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Dibenz(a,h)anthracene	2.36E-01	7.00E-02	1.65E-02 EPA, 1999	7.00E-02	1.65E-02 EPA, 1999	6.40E-03	1.51E-03 EPA, 1999	5.31E-02	1.25E-02 EPA, 1999	1.27E-04	3.00E-05 EPA, 1999	1.26E-02	3.11E-02	7.34E-03 EPA, 1999	9.98E-0	2.36E-04 EPA, 1999	
Dieldrin	2.10E-03	1.47E+01	3.09E-02 EPA, 2005f	1.47E+01	3.09E-02 EPA, 2005f	3.49E-02	7.33E-05 EPA, 1998	5.65E-03	1.19E-05 EPA, 1998		0.00E+00	1.19E-05	3.68E-03	7.73E-06 EPA, 1998		0.00E+00	7.73E-06
Endrin Aldehyde	5.50E-03		0.00E+00		0.00E+00	5.76E-02	3.17E-04 EPA, 1998	2.37E-03	1.30E-05 EPA, 1998		0.00E+00	1.30E-05	1.55E-03	8.53E-06 EPA, 1998		0.00E+00	8.53E-06
Edrin Ketone	2.90E-03		0.00E+00		0.00E+00	5.76E-02	1.67E-04 EPA, 1998	2.37E-03	6.87E-06 EPA, 1998		0.00E+00	6.87E-06	1.55E-03	4.50E-06 EPA, 1998		0.00E+00	4.50E-06
Fluoranthene	1.89E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Fluorene	1.07E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
gamma-Chlordane	1.70E-03		0.00E+00		0.00E+00	1.43E-02	2.43E-05 EPA, 1998	2.63E-02	4.47E-05 EPA, 1998		0.00E+00	4.47E-05	1.72E-02	2.92E-05 EPA, 1998		0.00E+00	2.92E-05
Indeno(1,2,3-cd)pyrene	7.61E-01	8.00E-02	6.09E-02 EPA, 1999	8.00E-02	6.09E-02 EPA, 1999	3.90E-03	2.97E-03 EPA, 1999	1.24E-01	9.44E-02 EPA, 1999	2.98E-04	2.27E-04 EPA, 1999	9.46E-02	7.24E-02	5.51E-02 EPA, 1999	2.32E-0	1.77E-03 EPA, 1999	
Lead	1.04E+02	3.00E-02	3.12E+00 EPA, 1999	3.00E-02	3.12E+00 EPA, 1999	4.50E-02	4.68E+00 EPA, 1999	1.80E-04	1.87E-02 EPA, 1999	4.32E-07	4.49E-05 EPA, 1999	1.88E-02		0.00E+00		0.00E+00	0.00E+00
Molybdenum	1.61E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Naphthalene	2.78E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Nickel	1.24E+01	2.00E-02	2.47E-01 EPA, 1999	2.00E-02		3.20E-02	3.96E-01 EPA, 1999	3.60E-03	4.45E-02 EPA, 1999	8.63E-06	1.07E-04 EPA, 1999	4.46E-02		0.00E+00		0.00E+00	0.00E+00
Phenanthrene	1.35E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pyrene	1.29E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Strontium	1.01E+02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Titanium	3.22E+01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Vanadium	1.52E+01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Zinc	8.15E+02	5.60E-01	4.57E+02 EPA, 1999	5.60E-01	4.57E+02 EPA, 1999	1.20E-12	9.78E-10 EPA, 1999	5.39E-05	4.39E-02 EPA, 1999	1.29E-07	1.05E-04 EPA, 1999	4.40E-02	3.89E-03	3.17E+00 EPA, 1999	1.25E-0	1.02E-01 EPA, 1999	3.27E+00
LPAH	5.01E+00	7.00E-02	3.51E-01 EPA, 1999*	7.00E-02	3.51E-01 EPA, 1999*	2.02E-02	1.01E-01 EPA, 1999*	5.31E-02	2.66E-01 EPA, 1999*	1.27E-04	6.36E-04 EPA, 1999*	2.67E-01	3.11E-02	1.56E-01 EPA, 1999*	9.98E-0	5.00E-03 EPA, 1999	* 1.61E-01
HPAH	9.16E+00	7.00E-02	6.41E-01 EPA, 1999*	7.00E-02	6.41E-01 EPA, 1999*	2.02E-02	1.85E-01 EPA, 1999*	5.31E-02	4.86E-01 EPA, 1999*	1.27E-04	1.16E-03 EPA, 1999*	4.87E-01	3.11E-02	2.85E-01 EPA, 1999*	9.98E-0	9.14E-03 EPA, 1999	* 2.94E-01
TOTAL PAHs	1.42E+01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00

Notes:

Does not exceed screening criteria but is considered bioaccumulative.

Exceeds screening criteria but is not considered bioaccumulative.

Exceeds screening criteria and is considered bioaccumulative.

Exceeds screening criteria and is considered bioaccumulative.

For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

EPA, 2007a - DDT

EPA, 2007b - PAHs

EPA, 2007c - Copper

EPA, 2007c - Cipper

EPA, 2007c - Zinc

EPA, 2005a - Antimony

EPA, 2005b - Cadmium

EPA, 2005c - Chromium

EPA, 2005c - Chromium

EPA, 2005c - Chandium

EPA, 2005c - Lead

# TABLE D-1 EXPOSURE POINT CONCENTATION (mg/kg) SOIL NORTH OF MARLIN AVE.

			Chatiatia
Parameter	Average	95% UCL	Statistic Used
2-Methylnaphthalene	Average 0.0103	0.0198	95% Chebyshev
4,4'-DDE	7.00E-04	0.0198	95% Chebyshev
4,4'-DDT	7.04E-04	0.0024	99% Chebyshev
Acenaphthene	0.0142	0.0036	95% Chebyshev
Acenaphthylene	0.0142	0.030	NC
Anthracene	0.0215	0.107	99% Chebyshev
Aroclor-1254	0.0215		·
		0.0168	95% Chebyshev
Benzo(a)anthracene	0.068	0.464	99% Chebyshev
Benzo(a)pyrene	0.0922	0.554	99% Chebyshev
Benzo(b)fluoranthene	0.12	0.649	99% Chebyshev
Benzo(g,h,i)perylene	0.0961	0.494	99% Chebyshev
Benzo(k)fluoranthene	0.0601	0.341	99% Chebyshev
Boron	7.576	20.55	99% Chebyshev
Cadmium	0.193	0.59	99% Chebyshev
Chrysene	0.0885	0.529	99% Chebyshev
Dibenz(a,h)anthracene	0.0384	0.177	99% Chebyshev
Dieldrin			NC
Endrin			NC
Endrin Ketone			NC
Fluoranthene	0.146	0.923	99% Chebyshev
Fluorene	0.0112	0.0282	95% Chebyshev
Iron	17531	21765	95% Student's-t
Naphthalene	0.0236	0.102	99% Chebyshev
Nickel	17.17	18.79	95% Student's-t
Phenanthrene	0.0998	0.595	99% Chebyshev
Pyrene	0.143	0.879	99% Chebyshev
Vanadium	20.54	22.9	95% Student's-t
LPAH	0.1806	0.888	
НРАН	0.9853	5.587	
TOTAL PAHs	1.1659	6.475	

## Notes:

NC - Not a COPC in soil.

<sup>\*</sup> Recommended UCL exceeds maximum observation so the maximum measured concentration was used as the EPC.

# TABLE D-2 EXPOSURE POINT CONCENTATION (mg/kg) SURFACE SOIL NORTH OF MARLIN AVE.

			Statistic
Parameter	Average	95% UCL	Used
2-Methylnaphthalene	0.0123	0.0275	95% Chebyshev
4,4'-DDE	0.0011	0.0093	99% Chebyshev
4,4'-DDT	0.0012	0.0073	99% Chebyshev
Acenaphthene	0.0161	0.0528	95% Chebyshev
Acenaphthylene	0.0099	0.0234	95% Chebyshev
Anthracene	0.0257	0.168	99% Chebyshev
Aroclor-1254	0.0037	0.0077	95% Chebyshev
Benzo(a)anthracene	0.0715	0.72	99% Chebyshev
Benzo(a)pyrene	0.114	0.888	99% Chebyshev
Benzo(b)fluoranthene	0.146	0.352	95% Adjusted Gamma
Benzo(g,h,i)perylene	0.132	0.842	99% Chebyshev
Benzo(k)fluoranthene	0.0689	0.505	99% Chebyshev
Boron	8.028	13.49	95% Approx. Gamma
Cadmium	0.207	0.799	99% Chebyshev
Chrysene	0.102	0.812	99% Chebyshev
Dibenz(a,h)anthracene	0.0471	0.284	99% Chebyshev
Dieldrin	4.87E-04	0.0034	99% Chebyshev
Endrin	3.04E-04	7.59E-04	95% Chebyshev
Endrin Ketone	8.74E-04	0.0031	95% Chebyshev
Fluoranthene	0.159	1.358	99% Chebyshev
Fluorene	0.0163	0.0496	95% Chebyshev
Indeno(1,2,3-cd)pyrene	0.151	0.969	99% Chebyshev
Naphthalene			NS
Nickel	17.04	20.76	95% Student's-t
Phenanthrene	0.109	0.845	99% Chebyshev
Pyrene	0.147	1.169	99% Chebyshev
Vanadium	19.66	23.4	95% Student's-t
LPAH	0.1893	1.1663	
НРАН	1.1385	7.899	
TOTAL PAHs	1.3278	9.0653	

## Notes:

NS - Not sampled in surface soil.

<sup>\*</sup> Recommended UCL exceeds maximum observation so the maximum measured concentration was used as the EPC.

### TABLE D-3 TOXICITY REFERENCE VALUES

Parameter	Earthworm (mg/kg)	Ref.	Comments	Deer Mouse (mg/kgBW-day)	Ref.	Comments	Coyote (mg/kgBW-day)	Ref.	Comments	Rat Snake (mg/kgBW-day)	Ref.	Comments	American Robin (mg/kgBW-day)	Ref.	Comments	Red-tailed Hawk (mg/kgBW-day)	Ref.	Comments
2-Methylnaphthalene													, , , , , , , , , , , , , , , , , , , ,					
						Highest bounded NOAEL for growth and			Highest bounded			Avian TRV was used as a			Highest bounded NOAEL for growth and			Highest bounded NOAEL for growth and
			Acute median LC50			reproduction lower than			NOAEL for growth and			surrogate for the			reproduction lower			reproduction lower
			in common cricket			the lowest bounded			reproduction lower than			rat snake since no			than the lowest			than the lowest
			(dose 4.3 with			LOAEL for			the lowest bounded			TRV was found			bounded LOAEL for			bounded LOAEL for
4,4'-DDE	0.043	EPA, 2007a	uncertainty factor of 0.01)	0.147	EPA, 2007a	reproduction, growth, and survival	0.147	EPA, 2007a	LOAEL for reproduction, growth, and survival	0.227	EPA, 2007a	specific for reptiles.	0.227	EPA, 2007a	reproduction, growth, and survival	0.227	EPA, 2007a	reproduction, growth, and survival
4,4 -000	0.043	LFA, 2007a	0.01)	0.147	LFA, 2007a	Highest bounded	0.147	LFA, 2007a	growin, and survivar	0.221	LFA, 2007a	Avian TRV was	0.221	LFA, 2007a	Highest bounded	0.221	LFA, 2007a	Highest bounded
						NOAEL for growth and			Highest bounded			used as a			NOAEL for growth and	1		NOAEL for growth and
			Acute median LC50			reproduction lower than			NOAEL for growth and			surrogate for the			reproduction lower			reproduction lower
			in common cricket (dose 4.3 with			the lowest bounded LOAEL for			reproduction lower than the lowest bounded			rat snake since no TRV was found			than the lowest bounded LOAEL for			than the lowest bounded LOAEL for
			uncertainty factor of			reproduction, growth,			LOAEL for reproduction,			specific for			reproduction, growth,			reproduction, growth,
4,4'-DDT	0.043	EPA, 2007a	0.01)	0.147	EPA, 2007a	and survival	0.147	EPA, 2007a	growth, and survival	0.227	EPA, 2007a	reptiles.	0.227	EPA, 2007a	and survival	0.227	EPA, 2007a	and survival
Acenaphthene																		
Acenaphthylene Anthracene		+																
,																		
						Chronic LOAEL in			Chronic LOAEL in									
			EC20 for			mouse with an			mouse with an									
#REF!	30	EPA, 2005a	earthworms	0.125	Sample, 1996	uncertainty factor of 0.1	0.125	Sample, 1996	uncertainty factor of 0.1	0.125		Mammalian TRV	0.125		Mammalian TRV	0.125		Mammalian TRV
			Acute median LC50			Chronic LOAEL for			Chronic LOAEL for								1	
			in earthworms (dose			reproduction in mouse			reproduction in mouse									
Aroclor-1254	2.51	EPA, 1999	251 with uncertainty factor of 0.01)	0.155	Sample, 1996	with an uncertainty factor of 0.1	0.155	Sample, 1996	with an uncertainty factor of 0.1	0.18	Sample, 1996	Avian TRV	0.18	Sample, 1996		0.18	Sample, 1996	
A100101-1254	2.51	LI A, 1999	18000 01 0.01)	0.133	Gampie, 1990	180101 01 0.1	0.155	Gample, 1990	lactor or o.1	0.10	Gample, 1990	Avian mv	0.10	Gample, 1990		0.10	Cample, 1990	
			Geometric mean of															
			the EC20 values for			Geometric mean of			0									
			three test species under three separate			NOAEL values for reproduction and			Geometric mean of NOAEL values for									
#REF!	330	EPA, 2005g	test conditions of pH	51.8	EPA, 2005g	growth	51.8	EPA, 2005g		51.8		Mammalian TRV	51.8		Mammalian TRV	51.8		Mammalian TRV
Benzo(a)anthracene																		
Benzo(a)pyrene Benzo(b)fluoranthene																		
Benzo(g,h,i)perylene																		
Benzo(k)fluoranthene																		
Boron						Highest bounded												
						NOAEL for growth and			Highest bounded									
						reproduction lower than			NOAEL for growth and									
			Chronic (4-month)			the lowest bounded			reproduction lower than						Geometric mean of			Geometric mean of
			NOAEL for cocoon production in			LOAEL for reproduction, growth,			the lowest bounded LOAEL for reproduction,						NOAEL values for reproduction and			NOAEL values for reproduction and
Cadmium	10	EPA, 1999	earthworm (dose 10)	0.77	EPA, 2005b	and survival	0.77	EPA, 2005b	growth, and survival	1.45	EPA, 1999	Avian TRV	1.47	EPA, 1999	growth	1.47	EPA, 1999	growth
			Maximum															
			acceptable toxicant concentration			Geometric mean of									Geometric mean of the	.	1	Geometric mean of the
		1	(MATC) for			NOAEL values for			Geometric mean of						NOAEL values for			NOAEL values for
			reproductive effects			reproduction and			NOAEL values for						reproduction and			reproduction and
#REF!	57	EPA, 2005c	in earthworm	2.4	EPA, 2005c	growth	2.4	EPA, 2005c	reproduction and growth	2.66	EPA, 2005c	Avian TRV	2.66	EPA, 2005c	growth	2.66	EPA, 2005c	growth
Chrysene						Highest bounded						<del> </del>			Highest bounded	<del> </del>		Highest bounded
						NOAEL for growth and			Highest bounded						NOAEL for growth and	ı	1	NOAEL for growth and
			Geometric mean of			reproduction lower than			NOAEL for growth and						reproduction lower		1	reproduction lower
			the MATC and EC10 values for six test			the lowest bounded LOAEL for			reproduction lower than the lowest bounded						than the lowest bounded LOAEL for		1	than the lowest bounded LOAEL for
			species under			reproduction, growth,			LOAEL for reproduction,						reproduction, growth,		1	reproduction, growth,
#REF!	80	EPA, 2007c	different test species	5.6	EPA, 2007c	and survival	5.6	EPA, 2007c	growth, and survival	4.05	EPA, 2007c	Avian TRV	4.05	EPA, 2007c	and survival	4.05	EPA, 2007c	and survival
Dibenz(a,h)anthracene						Highoot have deed									Highoot have de d	_		Highoot have ded
						Highest bounded NOAEL for growth			Highest bounded						Highest bounded NOAEL for growth		1	Highest bounded NOAEL for growth
						lower than the lowest			NOAEL for growth lower				1		lower than the lowest		1	lower than the lowest
						bounded LOAEL for			than the lowest bounded						bounded LOAEL for		1	bounded LOAEL for
Dieldrin				0.015	EPA, 2005f	reproduction, growth, and survival	0.015	EPA, 2005f	LOAEL for reproduction, growth, and survival	0.0709		Avian TRV	0.0709	EPA, 2005f	reproduction, growth, and survival	0.0709	EPA, 2005f	reproduction, growth, and survival
Dieluilli		+		0.015	EFM, 2000T	Chronic LOAEL in	0.015	EFA, 2000T	Chronic LOAEL in	0.0709		Aviali I KV	0.0709	EFM, 2000T	screech owl with an	0.0709	EFM, 2005T	screech owl with an
						mouse with an			mouse with an						uncertainty factor of			uncertainty factor of
Endrin				0.092	Sample, 1996	uncertainty factor of 0.1	0.092	Sample, 1996	uncertainty factor of 0.1	0.01	Sample, 1996	Avian TRV	0.01	Sample, 1996	0.1	0.01	Sample, 1996	0.1
						Chronic LOAEL in			Chronic LOAEL in mouse with an						screech owl with an			screech owl with an
Endrin Ketone				0.092	Sample, 1996	mouse with an uncertainty factor of 0.1	0.092	Sample, 1996		0.01	Sample, 1996	Avian TRV	0.01	Sample, 1996	uncertainty factor of 0.1	0.01	Sample, 1996	uncertainty factor of 0.1
Fluoranthene		1			, <sub>F</sub> , 1000			F.2, 1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					, p.z., 1000				
	· · · · · · · · · · · · · · · · · · ·			·		·	·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	·	· · · · · · · · · · · · · · · · · · ·			·	

## TOXICITY REFERENCE VALUES

	Earthworm			Deer Mouse			Coyote			Rat Snake			American Robin			Red-tailed Hawk		
Parameter	(mg/kg)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments
Fluorene																		
Indeno(1,2,3-cd)pyrene																		
						Highest bounded			18.1 41 1.1						Highest bounded	.		Highest bounded
						NOAEL for growth and reproduction lower than			Highest bounded NOAEL for growth and						NOAEL for growth and reproduction lower	1		NOAEL for growth and reproduction lower
			Geometric mean of			the lowest bounded			reproduction lower than						than the lowest			than the lowest
			MATC values for			LOAEL for			the lowest bounded						bounded LOAEL for			bounded LOAEL for
			one test species			reproduction, growth,			LOAEL for reproduction,						reproduction, growth,			reproduction, growth,
#REF!	1700	EPA, 2005e	under different pH	4.7	EPA, 2005e	and survival	4.7	EPA, 2005e	growth, and survival	1.63	EPA, 2005e	Avian TRV	1.63	EPA, 2005e	and survival	1.63	EPA, 2005e	and survival
#REF!																		
#REF!																		
															Acute (E deve) LOAEI			Acute (5 days) LOAEL
			Toxicity value not			Chronic (6-months)			Chronic (6-months)						Acute (5 days) LOAEL for mortality in coturnix	,		for mortality in coturnix
			available TRV for			NOAEL for reproduction			NOAEL for reproduction						quail (dose 325 with	`		quail (dose 325 with
			methyl mercury was			in mink (dose 1.01 with			in mink (dose 1.01 with						uncertainty factor of			uncertainty factor of
#REF!	2.5	EPA, 1999	used as a surrogate	1.01	EPA, 1999	uncertainty factor of 1)	1.01	EPA, 1999	uncertainty factor of 1)	3.25	EPA, 1999	Avian TRV	3.25	EPA, 1999	0.01)	3.25	EPA, 1999	0.01)
#REF!																		
Naphthalene						Highest bounded	1				1		1		Highest bounded	1		Highest bounded
						NOAEL for growth and			Highest bounded						NOAEL for growth and			NOAEL for growth and
			Geometric mean of			reproduction lower than			NOAEL for growth and						reproduction lower	1		reproduction lower
			MATC values for five			the lowest bounded			reproduction lower than						than the lowest			than the lowest
			species under			LOAEL for			the lowest bounded						bounded LOAEL for			bounded LOAEL for
			different test			reproduction, growth,			LOAEL for reproduction,						reproduction, growth,			reproduction, growth,
Nickel	280	EPA, 2007d	conditions	1.7	EPA, 2007d	and survival	1.7	EPA, 2007d	growth, and survival	6.71	EPA, 2007d	Avian TRV	6.71	EPA, 2007d	and survival	6.71	EPA, 2007d	and survival
Phenanthrene Pyrene																1		
Fyrene						Highest bounded									Highest bounded	1		Highest bounded
						NOAEL for growth and			Highest bounded						NOAEL for growth and	1		NOAEL for growth and
						reproduction lower than			NOAEL for growth and						reproduction lower			reproduction lower
			LOAEC/NOAEC for			the lowest bounded			reproduction lower than						than the lowest			than the lowest
			growth in brocolli			LOAEL for			the lowest bounded						bounded LOAEL for			bounded LOAEL for
			used as a surrogate			reproduction, growth,			LOAEL for reproduction,						reproduction, growth,			reproduction, growth,
Vanadium	100	EPA, 2005d	for invertebrates	4.16	EPA, 2005d	and survival	4.16	EPA, 2005d	growth, and survival	0.344	EPA, 2005d	Avian TRV	0.344	EPA, 2005d	and survival	0.344	EPA, 2005d	and survival
			Geometric mean of				1									1		
			the MATC and EC10			Geometric mean of	1								Geometric mean of	1		Geometric mean of
			values for three test			NOAEL values for			Geometric mean of						NOAEL values within			NOAEL values within
			species under			reproduction and			NOAEL values for						the reproductive and			the reproductive and
#REF!	120	EPA, 2007e	different test species	75.4	EPA, 2007e	growth	75.4	EPA, 2007e	reproduction and growth	66.1	EPA, 2007e	Avian TRV	66.1	EPA, 2007e	growth effect groups	66.1	EPA, 2007e	growth effect groups
						Highest bounded												
						NOAEL for growth and			Highest bounded									
						reproduction lower than the lowest bounded			NOAEL for growth and reproduction lower than									
						LOAEL for			the lowest bounded									
						reproduction, growth,			LOAEL for reproduction,									
LPAH	29	EPA, 2007b		65.6	EPA, 2007b	and survival	65.6	EPA, 2007b	growth, and survival	65.6		Mammalian TRV	65.6		Mammalian TRV	65.6		Mammalian TRV
						Highest bounded												
						NOAEL for growth and			Highest bounded							1		
						reproduction lower than	1		NOAEL for growth and							1		
						the lowest bounded LOAEL for			reproduction lower than the lowest bounded									
						reproduction, growth,			LOAEL for reproduction,									
НРАН	18	EPA, 2007b		0.615	EPA, 2007b	and survival	0.615	EPA, 2007b	growth, and survival	0.615		Mammalian TRV	0.615		Mammalian TRV	0.615		Mammalian TRV
TOTAL PAHs		,			, _:3.0			. ,	, , , , , , , , , , , , , , , , , , , ,									
-																		

## Notes:

EPA, 2007a -- DDT
EPA, 2007b -- PAHs
EPA, 2007c -- Copper
EPA, 2007d -- Nickel
EPA, 2007e -- Zinc
EPA, 2005a -- Antimony
EPA, 2005b -- Cadmium
EPA, 2005c -- Chromium
EPA, 2005d -- Vanadium
EPA, 2005e -- Lead

## TABLE D-4 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL NORTH OF MARLIN EARTHWORM

Ecological Hazard Quotient = Sc/TRV

Definition
Soil Concentration (mg/kg)
Toxicity Reference Value (mg/kg) Parameter Sc TRV Default

see below

see TRV summary page

	Average	RME	TRV	Average	RME	
Chemical	Sc	Sc	(earthworm)	EHQ	EHQ	
2-Methylnaphthalene	1.03E-02	1.98E-02				
4.4'-DDE	7.00E-04	2.40E-03	4.30E-02	1.63E-02	5.58E-02	
4.4'-DDT	7.04E-04	3.80E-03	4.30E-02	1.64E-02	8.84E-02	
Acenaphthene	1.42E-02	3.60E-02			0.0.2.02	
Acenaphthylene	0.00E+00	0.00E+00				
Anthracene	2.15E-02	1.07E-01				
Aroclor-1254	5.60E-03	1.68E-02	2.51E+00	2.23E-03	6.69E-03	
Benzo(a)anthracene	6.80E-02	4.64E-01	2.012.00	2.202 00	0.002 00	
Benzo(a)pyrene	9.22E-02	5.54E-01				
Benzo(b)fluoranthene	1.20E-01	6.49E-01				
Benzo(g,h,i)perylene	9.61E-02	4.94E-01				
Benzo(k)fluoranthene	6.01E-02	3.41E-01				
Boron	7.58E+00	2.06E+01				
Cadmium	1.93E-01	5.90E-01	1.00E+01	1.93E-02	5.90E-02	
Chrysene	8.85E-02	5.29E-01	1.002+01	1.301-02	J.30L-02	
Dibenz(a,h)anthracene	3.84E-02	1.77E-01				
Dieldrin	0.00E+00	0.00E+00				
Endrin	0.00E+00	0.00E+00 0.00E+00				
Endrin Ketone	0.00E+00	0.00E+00				
Fluoranthene	1.46E-01	9.23E-01				
Fluorene	1.46E-01 1.12E-02	9.23E-01 2.82E-02				
Indeno(1,2,3-cd)pyrene	1.33E-01	5.77E-01				
Naphthalene	2.36E-02	1.02E-01	2.005.02	C 42E 02	C 74 F 00	
Nickel Phenanthrene	1.72E+01	1.88E+01	2.80E+02	6.13E-02	6.71E-02	
	9.98E-02	5.95E-01				
Pyrene	1.43E-01	8.79E-01	4.005.00	0.055.04	0.005.04	
Vanadium	2.05E+01	2.29E+01	1.00E+02	2.05E-01	2.29E-01	
LPAH	1.81E-01	8.88E-01	2.90E+01	6.23E-03	3.06E-02	
HPAH	9.85E-01	5.59E+00	1.80E+01	5.47E-02	3.10E-01	
TOTAL PAHs	1.17E+00	6.48E+00				

# TABLE D-5 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN DEER MOUSE

DOU INCESTION							
SOIL INGESTION							
INTAKE = (Sc * IR * A	F * AUF) / (BW)						
Parameter	Definition					Value	Reference
Intake	Intake of chemical (mg	/kg-day)			са	lculated	
Sc	Soil concentration (mg/	/kg)			see	data page	
IR	Ingestion rate of soil (k	g/day)			2.	13E-05	EPA, 1999 (normalized for bw)
AF	Chemical Bioavailabilit	0 ,,	less)			1	EPA, 1997
AUF	Area Use Factor	,	,			1	EPA, 1997
BW	Body weight (kg)				1.	48E-02	EPA, 1999
Chemical		Average Sc		RME Sc		verage Intake	RME Intake
Chemical		30		30		IIIIane	IIIIane
2-Methylnaphthalene		1.03E-02		1.98E-02	1.	48E-05	2.85E-05
4,4'-DDE		7.00E-04		2.40E-03	1.	01E-06	3.45E-06
4,4'-DDT		7.04E-04		3.80E-03	1.	01E-06	5.47E-06
Acenaphthene		1.42E-02		3.60E-02	2.	04E-05	5.18E-05
Acenaphthylene		0.00E+00		0.00E+00	0.	00E+00	0.00E+00
Anthracene		2.15E-02		1.07E-01	3.	09E-05	1.54E-04
Aroclor-1254		5.60E-03		1.68E-02		06E-06	2.42E-05
Benzo(a)anthracene		6.80E-02		4.64E-01		79E-05	6.68E-04
Benzo(a)pyrene		9.22E-02		5.54E-01		33E-04	7.97E-04
Benzo(b)fluoranthene		1.20E-01		6.49E-01		73E-04	9.34E-04
Benzo(g,h,i)perylene		9.61E-02		4.94E-01		38E-04	7.11E-04
Benzo(k)fluoranthene		6.01E-02		3.41E-01	8.	65E-05	4.91E-04
Boron		7.58E+00		2.06E+01		09E-02	2.96E-02
Cadmium		1.93E-01		5.90E-01		78E-04	8.49E-04
Chrysene		8.85E-02		5.29E-01	1.	27E-04	7.61E-04
Dibenz(a,h)anthracene	9	3.84E-02		1.77E-01		53E-05	2.55E-04
Dieldrin	•	0.00E+00		0.00E+00		00E+00	0.00E+00
Endrin		0.00E+00		0.00E+00		00E+00	0.00E+00
Endrin Ketone		0.00E+00		0.00E+00		00E+00	0.00E+00
Fluoranthene		1.46E-01		9.23E-01		10E-04	1.33E-03
Fluorene		1.12E-02		2.82E-02		61E-05	4.06E-05
Indeno(1,2,3-cd)pyren	Α	1.33E-01		5.77E-01		91E-04	8.30E-04
Naphthalene		2.36E-02		1.02E-01		40E-05	1.47E-04
Nickel		1.72E+01		1.88E+01		47E-02	2.70E-02
Phenanthrene		9.98E-02		5.95E-01		44E-04	8.56E-04
Pyrene		1.43E-01		8.79E-01		06E-04	1.27E-03
Vanadium		2.05E+01		2.29E+01		96E-02	3.30E-02
LPAH		1.81E-01		8.88E-01		60E-04	1.28E-03
HPAH		9.85E-01		5.59E+00		42E-03	8.04E-03
TOTAL PAHs		1.17E+00		6.48E+00		68E-03	9.32E-03
FOOD INGESTION							
INTAKE = ((Ca * IR * I	DFa * AUF) / (BW) + ((C	Cp * IR * DFs	*AUF)/(BW))				
Parameter	Definition					Value	Reference
Intake	Intake of chemical (mg	/ka-day)				Iculated	Reference
Ca	Arthropod concentratio	• • • • • • • • • • • • • • • • • • • •				odConc page	
Ср	Plant concentration (mg	( 0 0)				odConc page	
IR	Ingestion rate of of food	0 0,				87E-03	EPA, 1999 (normalized for bw)
Dfa	Dietary fraction of arthr		)cc)			60E-01	, , ,
Dfs	,		,	tion (unitless)			EPA, 1993 EPA, 1993
	Dietary fraction of plant	is, seeus and	otner vegeta	lion (unitiess)	4.	40E-01	•
AUF	Area Use Factor				4	1	EPA, 1997
BW	Body weight (kg)				1.	48E-02	EPA, 1999
Chemical	Average Arthropod	RME Arthropod	Average Plant	RME Plant		verage Intake	RME Intake
Chemical	Aitiliopod	Attitiopod	Fiaiil	FIAIIL		IIIIake	IIIIane

# TABLE D-5 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN DEER MOUSE

2-Methylnaphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4,4'-DDE	8.82E-04	3.02E-03	6.56E-06	2.25E-05	2.98E-04	1.02E-03
4,4'-DDT	8.87E-04	4.79E-03	6.60E-06	3.56E-05	2.99E-04	1.62E-03
Acenaphthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acenaphthylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Anthracene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Aroclor-1254	6.33E-03	1.90E-02	5.60E-05	1.68E-04	2.14E-03	6.42E-03
Benzo(a)anthracene	2.04E-03	1.39E-02	1.37E-03	9.37E-03	1.05E-03	7.14E-03
Benzo(a)pyrene	6.45E-03	3.88E-02	9.31E-04	5.60E-03	2.41E-03	1.45E-02
Benzo(b)fluoranthene	8.40E-03	4.54E-02	1.21E-03	6.55E-03	3.14E-03	1.70E-02
Benzo(g,h,i)perylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(k)fluoranthene	4.81E-03	2.73E-02	6.07E-04	3.44E-03	1.77E-03	1.01E-02
Boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cadmium	1.85E-01	5.66E-01	7.03E-02	2.15E-01	8.07E-02	2.47E-01
Chrysene	3.54E-03	2.12E-02	1.65E-03	9.89E-03	1.62E-03	9.71E-03
Dibenz(a,h)anthracene	2.69E-03	1.24E-02	2.46E-04	1.13E-03	9.67E-04	4.46E-03
Dieldrin	7.15E-03	5.00E-02	1.70E-05	1.19E-04	2.41E-03	1.68E-02
Endrin	0.00E+00	0.00E+00	1.75E-05	4.37E-05	4.62E-06	1.15E-05
Endrin Ketone	0.00E+00	0.00E+00	5.03E-05	1.79E-04	1.33E-05	4.71E-05
Fluoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fluorene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene	1.06E-02	4.62E-02	5.19E-04	2.25E-03	3.71E-03	1.61E-02
Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nickel	3.43E-01	3.76E-01	5.49E-01	6.01E-01	2.60E-01	2.85E-01
Phenanthrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pyrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vanadium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LPAH	1.26E-02	6.22E-02	3.65E-03	1.79E-02	5.20E-03	2.56E-02
HPAH	6.90E-02	3.91E-01	1.99E-02	1.13E-01	2.84E-02	1.61E-01
TOTAL PAHs	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL INTAKE

INTAKE = Soil Intake + Food Intake

Chemical       Ave         2-Methylnaphthalene       1.44         4,4'-DDE       2.99         4,4'-DDT       3.00         Acenaphthene       2.00         Acenaphthylene       0.00         Anthracene       3.01         Arcoclor-1254       2.1         Benzo(a)phthracene       1.1         Benzo(a)pyrene       2.5         Benzo(b)fluoranthene       3.3         Benzo(k)fluoranthene       1.30         Benzo(k)fluoranthene       1.8         Borron       1.0         Cadmium       8.1         Chrysene       1.7         Dibenz(a,h)anthracene       1.0         Dieldrin       2.4         Endrin Ketone       1.3         Fluoranthene       2.1	erage R take In  8E-05 2.8 9E-04 1.0 0E-04 1.6 4E-05 5.1 0E+00 0.00 9E-05 1.5	DTAL  ME take  5E-05 2E-03 2E-03 8E-05 DE+00
Chemical       In         2-Methylnaphthalene       1.44         4,4'-DDE       2.99         4,4'-DDT       3.0         Acenaphthene       2.0         Acenaphthylene       0.00         Anthracene       3.0         Antoclor-1254       2.1         Benzo(a)anthracene       1.1         Benzo(a)pyrene       2.5         Benzo(b)fluoranthene       3.3         Benzo(g,h,i)perylene       1.3         Benzo(k)fluoranthene       1.8         Borron       1.0         Cadmium       8.1         Chrysene       1.7         Dibenz(a,h)anthracene       1.7         Dibeldrin       2.4         Endrin Ketone       1.3         Fluoranthene       2.1	take         In           8E-05         2.8           9E-04         1.0           0E-04         1.6           4E-05         5.1           0E+00         0.00           9E-05         1.5	take 5E-05 2E-03 2E-03 8E-05
2-Methylnaphthalene 1.4 4,4'-DDE 2.9 4,4'-DDT 3.00 Acenaphthene 2.0 Acenaphthylene 0.00 Anthracene 3.00 Arcolor-1254 2.11 Benzo(a)anthracene 1.1 Benzo(a)pyrene 2.5 Benzo(b)fluoranthene 3.3 Benzo(g,h,i)perylene 1.3 Benzo(g,h,i)perylene 1.3 Benzo(k)fluoranthene 1.8 Boron 1.00 Cadmium 1.7 Chrysene 1.7 Chrysene 1.7 Dibenz(a,h)anthracene 1.0 Dieldrin 2.4 Endrin Ketone 1.3	8E-05 2.8 9E-04 1.0 0E-04 1.6 4E-05 5.1 0E+00 0.00 9E-05 1.5	5E-05 2E-03 2E-03 8E-05
4,4'-DDE       2.9         4,4'-DDT       3.0         Acenaphthene       2.0         Acenaphthylene       0.00         Aroclor-1254       2.1         Benzo(a)anthracene       1.1         Benzo(a)pyrene       2.5         Benzo(g,h,i)perylene       1.3         Benzo(k)fluoranthene       1.8         Borson       1.0         Cadmium       8.1         Chrysene       1.7         Dieldrin       2.4         Endrin Ketone       1.3         Fluoranthene       2.1	9E-04 1.0 0E-04 1.6 4E-05 5.1 0E+00 0.00 9E-05 1.5	2E-03 2E-03 8E-05
4,4'-DDE       2.9         4,4'-DDT       3.0         Acenaphthene       2.0         Acenaphthylene       0.00         Aroclor-1254       2.1         Benzo(a)anthracene       1.1         Benzo(a)pyrene       2.5         Benzo(g,h,i)perylene       1.3         Benzo(k)fluoranthene       1.8         Borson       1.0         Cadmium       8.1         Chrysene       1.7         Dieldrin       2.4         Endrin Ketone       1.3         Fluoranthene       2.1	9E-04 1.0 0E-04 1.6 4E-05 5.1 0E+00 0.00 9E-05 1.5	2E-03 2E-03 8E-05
4,4'-DDT       3.0         Acenaphthene       2.0         Acenaphthylene       0.00         Anthracene       3.0         Arcolor-1254       2.1         Benzo(a)anthracene       1.1         Benzo(a)pyrene       2.5         Benzo(b)fluoranthene       3.3         Benzo(k)fluoranthene       1.8         Benzo(k)fluoranthene       1.8         Boron       1.0         Cadmium       8.1         Chrysene       1.7         Dibenz(a,h)anthracene       1.0         Dieldrin       2.4         Endrin Ketone       1.3         Fluoranthene       2.1	0E-04 1.6 4E-05 5.1 0E+00 0.00 9E-05 1.5	2E-03 8E-05
Acenaphthene 2.0 Acenaphthylene 0.00 Anthracene 3.00 Arcolor-1254 2.11 Benzo(a)anthracene 1.1. Benzo(a)pyrene 2.5 Benzo(b)fluoranthene 3.3 Benzo(g,h,i)perylene 1.3 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.3 Benzo(k	4E-05 5.1 0E+00 0.00 9E-05 1.5	8E-05
Acenaphthylene 0.00 Anthracene 3.09 Aroclor-1254 2.11 Benzo(a)anthracene 1.11 Benzo(a)pyrene 2.55 Benzo(b)fluoranthene 3.3 Benzo(g,h,i)perylene 1.3 Benzo(k)fluoranthene 1.8 Benzo(k)fluoranthene 1.8 Benzo(b)fluoranthene 1.8 Benzo(b)fluoranthene 1.8 Benzo(k)fluoranthene 1.3 Benzo(k)fluoranthene 1.	0.00 9E-05 0.00	
Anthracene 3.09 Aroclor-1254 2.11 Benzo(a)anthracene 1.11 Benzo(a)pyrene 2.55 Benzo(b)fluoranthene 3.3 Benzo(g,h,i)perylene 1.3 Benzo(k)fluoranthene 1.80 Benzo(k)fluoranthene 1.80 Cadmium 1.00 Cadmium 8.11 Chrysene 1.75 Dibenz(a,h)anthracene 1.75 Dieldrin 2.4 Endrin Ketone 1.33	9E-05 1.5	DE+00
Aroclor-1254 2.19 Benzo(a)anthracene 3.10 Benzo(a)pyrene 2.50 Benzo(b)fluoranthene 3.3 Benzo(g,h,i)perylene 3.3 Benzo(k)fluoranthene 3.8 Benzo(k)fluoranthene 3.8 Benzo(k)fluoranthene 3.8 Benzo(k)fluoranthene 3.8 Benzo(k)fluoranthene 3.8 Benzo(k)fluoranthene 3.8 Benzo(k)fluoranthene 3.8 Benzo(k)fluoranthene 3.8 Benzo(k)fluoranthene 3.8 Benzo(k)fluoranthene 3.8 Benzo(k)fluoranthene 3.8 Benzo(k)fluoranthene 3.8 Benzo(k)fluoranthene 3.8 Benzo(g,h,i)perylene 3.8 Benzo(g,h		
Benzo(a)anthracene       1.1         Benzo(a)pyrene       2.5         Benzo(b)fluoranthene       3.3         Benzo(g,h,i)perylene       1.3         Benzo(k)fluoranthene       1.8         Boron       1.0         Cadmium       8.1         Chrysene       1.7         Dibenz(a,h)anthracene       1.0         Dieldrin       2.4         Endrin Ketone       1.3         Fluoranthene       2.10	5E-03 6.4	4E-04
Benzo (a) pyrene       2.56         Benzo (b) fluoranthene       3.3         Benzo (g,h,i) perylene       1.36         Benzo (k) fluoranthene       1.8         Boron       1.0         Cadmium       8.1         Chrysene       1.79         Dibenz (a,h) anthracene       1.0         Dieldrin       2.4         Endrin Ketone       1.3         Fluoranthene       2.10	JL-03 0.4	4E-03
Benzo (b) fluoranthene       3.3         Benzo (g,h,i) perylene       1.3         Benzo (k) fluoranthene       1.8         Boron       1.0         Cadmium       8.1         Chrysene       1.7         Diebnz (a,h) anthracene       1.0         Dieldrin       2.4         Endrin Ketone       1.3         Fluoranthene       2.10	4E-03 7.8	1E-03
Benzo(g,h,i)perylene       1.3         Benzo(k)fluoranthene       1.8         Boron       1.0         Cadmium       8.1         Chrysene       1.7         Dibenz(a,h)anthracene       1.0         Dieldrin       2.4         Endrin Ketone       1.3         Fluoranthene       2.10	4E-03 1.5	3E-02
Benzo (k) fluoranthene       1.8         Boron       1.0         Cadmium       8.1         Chrysene       1.7         Dibenz (a,h) anthracene       1.0         Dieldrin       2.4         Endrin Ketone       1.3         Fluoranthene       2.1	1E-03 1.7	9E-02
Boron       1.09         Cadmium       8.10         Chrysene       1.79         Dibenz(a,h)anthracene       1.00         Dieldrin       2.4         Endrin Ketone       1.33         Fluoranthene       2.10	8E-04 7.1	1E-04
Cadmium       8.1         Chrysene       1.7         Dibenz(a,h)anthracene       1.0         Dieldrin       2.4         Endrin Ketone       1.3         Fluoranthene       2.1	6E-03 1.0	6E-02
Chrysene       1.78         Dibenz(a,h)anthracene       1.00         Dieldrin       2.4         Endrin Ketone       1.33         Fluoranthene       2.10	9E-02 2.9	6E-02
Dibenz(a,h)anthracene       1.00         Dieldrin       2.4         Endrin       4.60         Endrin Ketone       1.30         Fluoranthene       2.10	0E-02 2.4	8E-01
Dieldrin       2.4         Endrin       4.6         Endrin Ketone       1.3         Fluoranthene       2.10	5E-03 1.0	5E-02
Endrin       4.6         Endrin Ketone       1.3         Fluoranthene       2.10	2E-03 4.7	1E-03
Endrin Ketone 1.33 Fluoranthene 2.10		8E-02
Fluoranthene 2.10	1E-03 1.6	5E-05
		1E-05
71	2E-06 1.1	
Fluorene 1.6	2E-06 1.1 3E-05 4.7	3E-03
ndeno(1,2,3-cd)pyrene 3.90	2E-06 1.1 3E-05 4.7 0E-04 1.3	3E-03 6E-05
	2E-06 1.1 3E-05 4.7 0E-04 1.3 1E-05 4.0	
Nickel 2.8	2E-06 1.1: 3E-05 4.7 0E-04 1.3 1E-05 4.0 0E-03 1.6	6E-05
Phenanthrene 1.4	2E-06 1.1: 3E-05 4.7 0E-04 1.3 1E-05 4.0 0E-03 1.6 0E-05 1.4	6E-05 9E-02
Pyrene 2.00	2E-06 1.1: 3E-05 4.7 0E-04 1.3 1E-05 4.0 0E-03 1.6 0E-05 1.4 5E-01 3.1	6E-05 9E-02 7E-04

# TABLE D-5 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN DEER MOUSE

Vanadium	2.96E-02	3.30E-02
LPAH	5.46E-03	2.69E-02
НРАН	2.98E-02	1.69E-01
TOTAL PAHs	1.68E-03	9.32E-03

### TABLE D-6 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN COYOTE

FOOD INGESTION						
INTAKE = ((Cm * IR * Dfi	m * AUF)/(BW) + (Cb * IR *	DFb * AUF	) / (BW))			
Parameter	Definition				Value	Reference
Intake	Intake of chemical (mg/kg	r-dav)			calculated	1.0.0.00
Cm	Mammal concentration (n	,			see FoodConc pa	ae
Cb	Bird concentration (mg/kg	0 0,			see FoodConc pa	•
IR	Ingestion rate of of food (	<b>J</b> ,			1.55E+00	EPA, 1993 (normalized for bw)
Dfm	Dietary fraction of small n		nitless)		7.50E-01	EPA, 1993
Dfb	Dietary fraction of birds (u	`			2.50E-01	EPA, 1993
AUF	Area Use Factor				1	EPA, 1997
BW	Body weight (kg)				1.55E+01	EPA, 1993
	Body Wolght (Rg)				1.002101	2174, 1000
a	Average	RME	Average	RME	Average	RME
Chemical	Mammal	Mammal	Bird	Bird	Intake	Intake
2-Methylnaphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4,4'-DDE	1.91E-05	6.54E-05	1.15E-05	3.94E-05	1.72E-06	5.89E-06
4,4'-DDT	1.92E-05	1.04E-04	1.16E-05	6.24E-05	1.73E-06	9.33E-06
Acenaphthene	0.00E+00	0.00E+00	0.00E+00	0.24E-03	0.00E+00	0.00E+00
Acenaphthylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00
Anthracene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Aroclor-1254	1.36E-04	4.09E-04	8.21E-05	2.46E-04	1.23E-05	3.68E-05
Benzo(a)anthracene	4.90E-04	3.34E-03	2.95E-04	2.01E-03	4.41E-05	3.01E-04
Benzo(a)pyrene	1.88E-03	1.13E-02	1.13E-03	6.80E-03	1.69E-04	1.02E-03
Benzo(b)fluoranthene	2.89E-03	1.15E-02 1.56E-02	1.73E-03	9.38E-03	2.60E-04	1.41E-03
Benzo(g,h,i)perylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(k)fluoranthene	1.44E-03	8.17E-03	8.62E-04	4.89E-03	1.30E-04	7.35E-04
` '	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00
Boron Cadmium	1.39E-05	4.25E-05	9.38E-03	0.00E+00 2.87E-02	2.36E-04	7.20E-04
Chrysene	7.34E-04	4.39E-03	4.42E-04	2.64E-03	6.61E-05	3.95E-04
Dibenz(a,h)anthracene	2.04E-03	9.42E-03	1.23E-03	5.68E-03	1.84E-04	8.49E-04
Dieldrin	2.75E-06	1.92E-05	1.79E-06	1.25E-05	2.51E-07	1.75E-06
Endrin	7.20E-07	1.80E-06	4.71E-07	1.18E-06	6.58E-08	1.64E-07
Endrin Ketone	2.07E-06	7.35E-06	1.35E-06	4.81E-06	1.89E-07	6.71E-07
Fluoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fluorene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene	1.65E-02	7.17E-02	9.94E-03	4.31E-02	1.49E-03	6.46E-03
Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nickel	6.20E-02	6.78E-02	0.00E+00	0.00E+00	4.65E-03	5.09E-03
Phenanthrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pyrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vanadium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LPAH	9.61E-03	4.73E-02	5.80E-03	2.85E-02	8.66E-04	4.26E-03
HPAH	5.24E-02	2.97E-01	3.16E-02	1.79E-01	4.72E-03	2.68E-02
TOTAL PAHs	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I						

## TABLE D-7 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN RAT SNAKE

SOIL INGESTION									
INTAKE = (Sc * IR * AF * A	AUF) / (BW)								
Parameter	_	efinition						Value	Reference
			-:! //!						Reference
Intake		ntake of chen						alculated	
Sc		oil concentra	, , ,	.,				data page	
IR		ngestion rate					1	.45E-04	EPA, 1993 *
AF		Chemical Bioa		n soil (unitle	ss)			1	EPA, 1997
AUF		rea Use Fac						1	EPA, 1997
BW	В	ody weight (	kg)				1	.39E-01	EPA, 1993
				A		DME	,		DME
Chemical				Average Sc		RME Sc		Average Intake	RME Intake
O Mathada and thada a				4.005.00		4.005.00		075.05	0.005.05
2-Methylnaphthalene				1.03E-02		1.98E-02		.07E-05	2.06E-05
4,4'-DDE				7.00E-04		2.40E-03		'.28E-07	2.50E-06
4,4'-DDT				7.04E-04		3.80E-03		'.32E-07	3.95E-06
Acenaphthene				1.42E-02		3.60E-02	1	.48E-05	3.74E-05
Acenaphthylene				0.00E+00		0.00E+00	0	.00E+00	0.00E+00
Anthracene				2.15E-02		1.07E-01	2	2.24E-05	1.11E-04
Aroclor-1254				5.60E-03		1.68E-02		.82E-06	1.75E-05
Benzo(a)anthracene				6.80E-02		4.64E-01		.07E-05	4.83E-04
Benzo(a)pyrene				9.22E-02		5.54E-01		.59E-05	5.76E-04
Benzo(b)fluoranthene									
` '				1.20E-01		6.49E-01		.25E-04	6.75E-04
Benzo(g,h,i)perylene				9.61E-02		4.94E-01		0.99E-05	5.14E-04
Benzo(k)fluoranthene				6.01E-02		3.41E-01		5.25E-05	3.55E-04
Boron				7.58E+00		2.06E+01	7	'.88E-03	2.14E-02
Cadmium				1.93E-01		5.90E-01	2	2.01E-04	6.14E-04
Chrysene				8.85E-02		5.29E-01	9	.20E-05	5.50E-04
Dibenz(a,h)anthracene				3.84E-02		1.77E-01	3	3.99E-05	1.84E-04
Dieldrin				0.00E+00		0.00E+00		.00E+00	0.00E+00
Endrin				0.00E+00		0.00E+00		.00E+00	0.00E+00
Endrin Ketone				0.00E+00		0.00E+00		.00E+00	0.00E+00
Fluoranthene				1.46E-01		9.23E-01		.52E-04	9.60E-04
Fluorene				1.12E-02		2.82E-02		.16E-05	2.93E-05
Indeno(1,2,3-cd)pyrene				1.33E-01		5.77E-01		.38E-04	6.00E-04
Naphthalene				2.36E-02		1.02E-01	2	2.45E-05	1.06E-04
Nickel				1.72E+01		1.88E+01	1	.79E-02	1.95E-02
Phenanthrene				9.98E-02		5.95E-01	1	.04E-04	6.19E-04
Pyrene				1.43E-01		8.79E-01	1	.49E-04	9.14E-04
Vanadium				2.05E+01		2.29E+01		.14E-02	2.38E-02
LPAH				1.81E-01		8.88E-01		.88E-04	9.24E-04
HPAH				9.85E-01		5.59E+00		.02E-03	5.81E-03
TOTAL PAHs				1.17E+00					
TOTAL PARS				1.17E+00		6.48E+00	1	.21E-03	6.73E-03
FOOD INGESTION									
INTAKE = ((Cb * IR * Dfb *	AUF)/(BW) + (0	Ca * IR * DFa	a * AUF) / (I	3W) + ((Cm	* IR * DFm * <i>A</i>	\UF)/(BW))			
INTAKE = ((Cb * IR * Dfb *	, , , ,		a * AUF) / (I	3W) + ((Cm	* IR * DFm * <i>F</i>	\UF)/(BW))		Value	Reference
INTAKE = ((Cb * IR * Dfb * Parameter	D	efinition	, ,	, ,,	* IR * DFm */	\UF)/(BW))	C	Value	Reference
INTAKE = ((Cb * IR * Dfb * Parameter Intake	D In	efinition ntake of chen	nical (mg/kç	g-day)	* IR * DFm */	AUF)/(BW))		alculated	
INTAKE = ((Cb * IR * Dfb *  Parameter  Intake  Cb	D In B	Definition Intake of chen Bird concentra	nical (mg/kg	g-day)	* IR * DFm */	AUF)/(BW))	see Fo	alculated oodConc pa	age
INTAKE = ((Cb * IR * Dfb * Parameter Intake Cb Ca	D In B	Definition ntake of chen sird concentra orthropod con	nical (mg/kg ation (mg/kg	g-day) g) (mg/kg)	* IR * DFm */	AUF)/(BW))	see Fo see Fo	alculated oodConc pa oodConc pa	nge nge
INTAKE = ((Cb * IR * Dfb * Parameter Intake Cb Ca Cm	D In B A	Definition ntake of chen lird concentra arthropod con flammal conc	nical (mg/kg ation (mg/kg acentration ( entration (r	g-day) g) (mg/kg) ng/kg)	* IR * DFm */	AUF)/(BW))	see Fo see Fo see Fo	alculated oodConc pa oodConc pa oodConc pa	nge nge nge
INTAKE = ((Cb * IR * Dfb * Parameter Intake Cb Ca Cm IR	D In B A M In	Definition  Intake of chen  It concentrate  It concentrate  It concentrate  It concentrate  It concentrate  It concentrate	nical (mg/kg ation (mg/kg centration ( rentration (r of of food (	g-day) g) (mg/kg) ng/kg) kg/day)	* IR * DFm */	AUF)/(BW))	see Fo see Fo see Fo 2	alculated oodConc pa oodConc pa oodConc pa 2.78E-03	nge nge nge EPA, 1993 (normalized fo
INTAKE = ((Cb * IR * Dfb *  Parameter Intake Cb Ca Cm IR Dfb	D In B A M In	Definition Intake of chen Isird concentra Inthropod con Ising a concentrate Interpretation of the concentrate Interpretation of the concentration of the con	nical (mg/kg ation (mg/kg centration ( centration (r of of food ( n of birds (	g-day) (mg/kg) ng/kg) kg/day) unitless)		AUF)/(BW))	see Fo see Fo see Fo 2 1	alculated oodConc page oodConc page oodConc page 2.78E-03 .80E-01	ige ige ige EPA, 1993 (normalized fo EPA, 1993
INTAKE = ((Cb * IR * Dfb *  Parameter Intake Cb Ca Cm IR Dfb	D In B A M In	Definition  Intake of chen  It concentrate  It concentrate  It concentrate  It concentrate  It concentrate  It concentrate	nical (mg/kg ation (mg/kg centration ( centration (r of of food ( n of birds (	g-day) (mg/kg) ng/kg) kg/day) unitless)		AUF)/(BW))	see Fo see Fo see Fo 2 1	alculated oodConc pa oodConc pa oodConc pa 2.78E-03	nge nge nge EPA, 1993 (normalized fo
INTAKE = ((Cb * IR * Dfb *  Parameter Intake Cb Ca Cm IR Dfb Dfa	D Irr B A M Irr D	Definition Intake of chen Isird concentra Inthropod con Ising a concentrate Interpretation of the concentrate Interpretation of the concentration of the con	nical (mg/kg ation (mg/kg centration ( entration (r of of food ( n of birds (i n of arthrop	g-day) g) (mg/kg) ng/kg) kg/day) unitless) oods (unitless	s)	AUF)/(BW))	see Fo see Fo see Fo 2 1	alculated oodConc page oodConc page oodConc page 2.78E-03 .80E-01	ige ige ige EPA, 1993 (normalized fo EPA, 1993
INTAKE = ((Cb * IR * Dfb *  Parameter Intake Cb Ca Cm IR Dfb Dfb Dfa Dfm	D In B A M In D D	Definition Intake of chen It concentra Inthropod con It dammal concentrate It is the concentrate of the concentrate It is the concentrate of the c	nical (mg/kg ation (mg/kg centration ( centration (r of of food ( n of birds (i n of arthrop n of small r	g-day) g) (mg/kg) ng/kg) kg/day) unitless) oods (unitless	s)	AUF)/(BW))	see Fo see Fo see Fo 2 1	alculated bodConc par bodConc par bodConc par 2.78E-03 .80E-01	ige ige ige EPA, 1993 (normalized fo EPA, 1993 EPA, 1993
INTAKE = ((Cb * IR * Dfb *  Parameter Intake Cb Ca Cm	D In A M In D D A	Definition Intake of chen Intake of	nical (mg/kg ation (mg/kg centration ( centration (r of of food ( n of birds (r n of arthrop n of small r	g-day) g) (mg/kg) ng/kg) kg/day) unitless) oods (unitless	s)	AUF)/(BW))	see Fo see Fo see Fo 2 1 2 6	alculated bodConc page bodConc page 2.78E-03 .80E-01 2.00E-01	ige ige EPA, 1993 (normalized fo EPA, 1993 EPA, 1993 EPA, 1993
INTAKE = ((Cb * IR * Dfb * Parameter Intake Cb Ca Cm IR Dfb Dfa Dfa Dfm AUF	D In A M In D D A	Definition Intake of chen Intake of	nical (mg/kg ation (mg/kg centration ( centration (r of of food ( n of birds (r n of arthrop n of small r	g-day) g) (mg/kg) ng/kg) kg/day) unitless) oods (unitless	s)	AUF)/(BW))	see Fo see Fo see Fo 2 1 2 6	alculated podConc page podConc page 2.78E-03 .80E-01 .00E-01 5.20E-01	ige ige EPA, 1993 (normalized for EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997
INTAKE = ((Cb * IR * Dfb * Parameter Intake Cb Ca Cm IR Dfb Dfa Dfm AUF BW	D In A A B Average	Definition Intake of chen Identified concentrate Inthropod con Identified concentrate Ident	nical (mg/kg ation (mg/kg centration ( entration (r of of food ( n of birds (i n of arthrop n of small r tor kg)	g-day) j) (mg/kg) ng/kg) kg/day) unitless) oods (unitless nammals (un	s) nitless) Average	RME	see Fo see Fo see Fo 2 1 2 6	alculated podConc parodConc par	ige ige EPA, 1993 (normalized fo EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1993
INTAKE = ((Cb * IR * Dfb *  Parameter Intake Cb Ca Cm IR Dfb Dfa Dfm AUF BW	D In B A M In D D D A B	Definition ntake of chen itrid concentra inthropod con nammal conc ngestion rate bietary fractio bietary fractio bietary fractio brea Use Fac body weight (	nical (mg/kg ation (mg/kg centration ( entration (r of of food ( n of birds (r n of arthrop n of small r tor kg)	g-day) j) (mg/kg) ng/kg) kg/day) unitless) oods (unitless nammals (un	s) nitless)		see Fo see Fo see Fo 2 1 2 6	alculated odConc par odConc par odConc par odConc par 0.78E-03 .80E-01 .00E-01 1 .39E-01	ige ige EPA, 1993 (normalized fo EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1993
INTAKE = ((Cb * IR * Dfb * Parameter Intake Cb Ca Cm IR Dfb Dfa Dfm AUF BW	D In B A M In D D A B B Average Bird	Definition Thatke of chen dird concentra orthropod con Mammal conc ngestion rate dietary fractio Dietary fractio Dietary fractio Dietary fractio Dietary fractio Dietary fractio RME Bird	nical (mg/kg ation (mg/kg centration (r of of food ( n of birds (i n of small r tor kg)  Average Arthropod	g-day) g) mg/kg) ng/kg) kg/day) unitless) pods (unitless nammals (ur	s) nitless) Average Mammal	RME Mammal	see Fo see Fo see Fo 2 1 2 6	alculated podConc pagoodConc pago	ige ige ige EPA, 1993 (normalized fo EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1993 RME Intake
INTAKE = ((Cb * IR * Dfb *  Parameter Intake Cb Ca Cm IIR Dfb Dfa Dfm AUF BW  Chemical 2-Methylnaphthalene	D In In B A A M In D D D A A B Bird 0.00E+00	Definition Intake of chen Intake of chen Interpolation Int	nical (mg/kg ation (mg/kg centration (r of of food ( n of birds (r n of arthrop n of small r tor kg)  Average Arthropod  0.00E+00	g-day) g) (mg/kg) ng/kg) kg/day) unitless) nods (unitless nammals (ur	Average Mammal  0.00E+00	RME Mammal 0.00E+00	see Fo see Fo see Fo 2 1 2 6	alculated podConc particulated	ige ige ige EPA, 1993 (normalized fo EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1993 RME Intake
INTAKE = ((Cb * IR * Dfb * Parameter Intake Cb Ca Cm IR Dfb Dfa Dfm AUF BW  Chemical 2-Methylnaphthalene 4,4'-DDE	D In In B A A M In D D D A A B B Bird 0.00E+00 1.15E-05	Definition ntake of chen itird concentra urthropod con dammal conc ngestion rate pietary fractio pietary fractio pietary fractio pietary fractio urea Use Fac piody weight (  RME Bird  0.00E+00 3.94E-05	nical (mg/kg ation (mg/kg centration ( entration ( of of food ( n of birds ( n of arthrop n of small r tor kg)  Average Arthropod  0.00E+00 8.82E-04	g-day) g) (mg/kg) ng/kg) kg/day) unitless) sods (unitless nammals (ur  RME Arthropod  0.00E+00  3.02E-03	Average Mammal  0.00E+00 1.91E-05	RME Mammal 0.00E+00 6.54E-05	see Fo see Fo see Fo 2 1 2 6 1	alculated podConc particulated	Ige Ige Ige EPA, 1993 (normalized fo EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1993 RME Intake
INTAKE = ((Cb * IR * Dfb * Parameter Intake Cb Ca Cm IR Dfb Dfa Dfm AUF BW  Chemical 2-Methylnaphthalene 4,4'-DDE 4,4'-DDT	D In In A A M In In D D D A A B B Average Bird 0.00E+00 1.15E-05 1.16E-05	Definition Intake of chen Identified concentrate Inthropod con Identified concentrate Identified concentrate Identified concentrate Identified concentrate Identified concentrate Identified Identifie	nical (mg/kg ation (mg/kg icentration (r of of food ( n of birds (i n of arthrop n of small r tor kg)  Average Arthropod  0.00E+00 8.82E-04 8.87E-04	g-day) g) (mg/kg) ng/kg) kg/day) unitless) oods (unitless nammals (ur  RME Arthropod  0.00E+00 3.02E-03 4.79E-03	Average Mammal  0.00E+00 1.91E-05 1.92E-05	RME Mammal 0.00E+00 6.54E-05 1.04E-04	see Fo see Fo see Fo 2 1 2 6 1 1	alculated podConc particulated	Ige Ige Ige EPA, 1993 (normalized fo EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1993  RME Intake  0.00E+00 1.30E-05 2.07E-05
INTAKE = ((Cb * IR * Dfb * Parameter Intake Cb Ca Cm IR Dfb Dfa Dfm AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDE 4,4'-DDT Acenaphthene	D In B A A M In D D D A A B B BIRD 1.15E-05 1.16E-05 0.00E+00	Definition Intake of chen Intake of	nical (mg/kg ation (mg/kg centration (r of of food ( n of birds (i n of arthrop n of small r tor kg)  Average Arthropod  0.00E+00 8.82E-04 8.87E-04 0.00E+00	g-day) g) (mg/kg) ng/kg) kg/day) unitless) pods (unitless nammals (ur  RME Arthropod  0.00E+00 3.02E-03 4.79E-03 0.00E+00	Average Mammal 0.00E+00 1.91E-05 1.92E-05 0.00E+00	RME Mammal 0.00E+00 6.54E-05 1.04E-04 0.00E+00	see Fo see Fo see Fo 2 1 2 6 1	alculated podConc paracodConc	ge gge EPA, 1993 (normalized for EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1993 EPA, 1993 EPA, 1995 EPA
INTAKE = ((Cb * IR * Dfb * Parameter Intake Cb Ca Cm IR Dfb Dfa Dfm AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDE 4,4'-DDT Acenaphthene	D In In A A M In In D D D A A B B Average Bird 0.00E+00 1.15E-05 1.16E-05	Definition Intake of chen Identified concentrate Inthropod con Identified concentrate Identified concentrate Identified concentrate Identified concentrate Identified concentrate Identified Identifie	nical (mg/kg ation (mg/kg centration (r of of food ( n of birds (i n of arthrop n of small r tor kg)  Average Arthropod  0.00E+00 8.82E-04 8.87E-04 0.00E+00	g-day) g) (mg/kg) ng/kg) kg/day) unitless) oods (unitless nammals (ur  RME Arthropod  0.00E+00 3.02E-03 4.79E-03	Average Mammal  0.00E+00 1.91E-05 1.92E-05	RME Mammal 0.00E+00 6.54E-05 1.04E-04	see Fo see Fo see Fo 2 1 2 6 1	alculated podConc particulated	Ige Ige Ige EPA, 1993 (normalized fo EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1993  RME Intake  0.00E+00 1.30E-05 2.07E-05
INTAKE = ((Cb * IR * Dfb * Parameter Intake Cb Ca Cm IIR Dfb Dfa Dfm AUF BW	D In B A A M In D D D A A B B BIRD 1.15E-05 1.16E-05 0.00E+00	Definition Intake of chen Intake of	nical (mg/kg ation (mg/kg centration (r of of food ( n of birds (i n of small r tor kg)  Average Arthropod  0.00E+00  0.00E+00  0.00E+00	g-day) g) (mg/kg) ng/kg) kg/day) unitless) pods (unitless nammals (ur  RME Arthropod  0.00E+00 3.02E-03 4.79E-03 0.00E+00	Average Mammal 0.00E+00 1.91E-05 1.92E-05 0.00E+00	RME Mammal 0.00E+00 6.54E-05 1.04E-04 0.00E+00	see Fo see Fo see Fo 2 1 2 6 6 1	alculated podConc paracodConc	ge gge EPA, 1993 (normalized for EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1993 EPA, 1993 EPA, 1995 EPA

# TABLE D-7 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN RAT SNAKE

Benzo(a)anthracene	2.95E-04	2.01E-03 2.04E	-03 1.39E-02	4.90E-04	3.34E-03	1.53E-05	1.04E-04	
Benzo(a)pyrene	1.13E-03	6.80E-03 6.45E	-03 3.88E-02	1.88E-03	1.13E-02	5.32E-05	3.19E-04	
Benzo(b)fluoranthene	1.73E-03	9.38E-03 8.40E	-03 4.54E-02	2.89E-03	1.56E-02	7.56E-05	4.09E-04	
Benzo(g,h,i)perylene	0.00E+00	0.00E+00 0.00E	+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Benzo(k)fluoranthene	8.62E-04	4.89E-03 4.81E	-03 2.73E-02	1.44E-03	8.17E-03	4.02E-05	2.28E-04	
Boron	0.00E+00	0.00E+00 0.00E	+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Cadmium	9.38E-03	2.87E-02 1.85E	-01 5.66E-01	1.39E-05	4.25E-05	7.75E-04	2.37E-03	
Chrysene	4.42E-04	2.64E-03 3.54E	-03 2.12E-02	7.34E-04	4.39E-03	2.48E-05	1.49E-04	
Dibenz(a,h)anthracene	1.23E-03	5.68E-03 2.69E	-03 1.24E-02	2.04E-03	9.42E-03	4.05E-05	1.87E-04	
Dieldrin	1.79E-06	1.25E-05 7.15E	-03 5.00E-02	2.75E-06	1.92E-05	2.87E-05	2.00E-04	
Endrin	4.71E-07	1.18E-06 0.00E	+00 0.00E+00	7.20E-07	1.80E-06	1.06E-08	2.65E-08	
Endrin Ketone	1.35E-06	4.81E-06 0.00E	+00 0.00E+00	2.07E-06	7.35E-06	3.06E-08	1.08E-07	
Fluoranthene	0.00E+00	0.00E+00 0.00E	+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Fluorene	0.00E+00	0.00E+00 0.00E	+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Indeno(1,2,3-cd)pyrene	9.94E-03	4.31E-02 1.06E	-02 4.62E-02	1.65E-02	7.17E-02	2.83E-04	1.23E-03	
Naphthalene	0.00E+00	0.00E+00 0.00E	+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Nickel	0.00E+00	0.00E+00 3.43E	-01 3.76E-01	6.20E-02	6.78E-02	2.14E-03	2.34E-03	
Phenanthrene	0.00E+00	0.00E+00 0.00E	+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Pyrene	0.00E+00	0.00E+00 0.00E	+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Vanadium	0.00E+00	0.00E+00 0.00E	+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
LPAH	5.80E-03	2.85E-02 1.26E	-02 6.22E-02	9.61E-03	4.73E-02	1.91E-04	9.37E-04	
HPAH	3.16E-02	1.79E-01 6.90E	-02 3.91E-01	5.24E-02	2.97E-01	1.04E-03	5.90E-03	
TOTAL PAHs	0.00E+00	0.00E+00 0.00E	+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

TOTAL INTAKE

INTAKE = Soil Intake + Food Intake

	TOTAL	TOTAL
	Average	RME
Chemical	Intake	Intake
2-Methylnaphthalene	1.07E-05	2.06E-05
4,4'-DDE	4.53E-06	1.55E-05
4,4'-DDT	4.53E-06 4.56E-06	2.46E-05
	4.36E-06 1.48E-05	2.46E-05 3.74E-05
Acenaphthene	0.00E+00	0.00E+00
Acenaphthylene		
Anthracene	2.24E-05	1.11E-04
Aroclor-1254	3.31E-05	9.94E-05
Benzo(a)anthracene	8.60E-05	5.87E-04
Benzo(a)pyrene	1.49E-04	8.96E-04
Benzo(b)fluoranthene	2.00E-04	1.08E-03
Benzo(g,h,i)perylene	9.99E-05	5.14E-04
Benzo(k)fluoranthene	1.03E-04	5.83E-04
Boron	7.88E-03	2.14E-02
Cadmium	9.76E-04	2.98E-03
Chrysene	1.17E-04	6.99E-04
Dibenz(a,h)anthracene	8.05E-05	3.71E-04
Dieldrin	2.87E-05	2.00E-04
Endrin	1.06E-08	2.65E-08
Endrin Ketone	3.06E-08	1.08E-07
Fluoranthene	1.52E-04	9.60E-04
Fluorene	1.16E-05	2.93E-05
Indeno(1,2,3-cd)pyrene	4.22E-04	1.83E-03
Naphthalene	2.45E-05	1.06E-04
Nickel	2.00E-02	2.19E-02
Phenanthrene	1.04E-04	6.19E-04
Pyrene	1.49E-04	9.14E-04
Vanadium	2.14E-02	2.38E-02
LPAH	3.78E-04	1.86E-03
HPAH	2.06E-03	1.17E-02
TOTAL PAHs	1.21E-03	6.73E-03

Notes:

\* Soil ingestion was assumed to be 5.2% of dietary intake per other reptiles listed in EPA, 1993.

## TABLE D-8 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN AMERICAN ROBIN

SOIL INGESTION							
0012 11102011011							
INTAKE = (Sc * IR * AF * A	.UF) / (BW)						
Parameter	Defin	ition				Value	Reference
Intake		of chemical (mg/kg	g-day)			calculated	
Sc		concentration (mg/kg				see data page	
IR .		tion rate of soil (kg/	,			1.14E-03	EPA, 1999 (normalized for bw
AF		nical Bioavailability		cc)		1.146-03	EPA, 1997
			in son (unitie	55)		·	,
AUF		Use Factor				1	EPA, 1997
BW	воду	weight (kg)				8.00E-02	EPA, 1999
			Average		RME	Average	RME
Chemical			Sc		Sc	Intake	Intake
2-Methylnaphthalene			1.23E-02		2.75E-02	1.75E-04	3.92E-04
4,4'-DDE			1.10E-03		9.30E-03	1.57E-05	1.33E-04
4,4'-DDT			1.20E-03		7.30E-03	1.71E-05	1.04E-04
Acenaphthene			1.61E-02		5.28E-02	2.29E-04	7.52E-04
Acenaphthylene			9.90E-03		2.34E-02	1.41E-04	3.33E-04
Anthracene			2.57E-02		1.68E-01	3.66E-04	2.39E-03
Aroclor-1254			3.70E-03		7.70E-03	5.27E-05	1.10E-04
Benzo(a)anthracene			7.15E-02		7.20E-01	1.02E-03	1.03E-02
Benzo(a)pyrene			1.14E-01		8.88E-01	1.62E-03	1.27E-02
Benzo(b)fluoranthene			1.46E-01		3.52E-01	2.08E-03	5.02E-03
Benzo(g,h,i)perylene			1.32E-01		8.42E-01	1.88E-03	1.20E-02
Benzo(k)fluoranthene			6.89E-02		5.05E-01	9.82E-04	7.20E-03
Boron			8.03E+00		1.35E+01	1.14E-01	1.92E-01
Cadmium			2.07E-01		7.99E-01	2.95E-03	1.14E-02
Chrysene			1.02E-01		8.12E-01	1.45E-03	1.16E-02
•							
Dibenz(a,h)anthracene			4.71E-02		2.84E-01	6.71E-04	4.05E-03
Dieldrin			4.87E-04		3.40E-03	6.93E-06	4.85E-05
Endrin			3.04E-04		7.59E-04	4.33E-06	1.08E-05
Endrin Ketone			8.74E-04		3.10E-03	1.25E-05	4.42E-05
Fluoranthene			1.59E-01		1.36E+00	2.27E-03	1.94E-02
Fluorene			1.63E-02		4.96E-02	2.32E-04	7.07E-04
			1.51E-01		9.69E-01		1.38E-02
Indeno(1,2,3-cd)pyrene						2.15E-03	
Naphthalene			0.00E+00		0.00E+00	0.00E+00	0.00E+00
Nickel			1.70E+01		2.08E+01	2.43E-01	2.96E-01
Phenanthrene			1.09E-01		8.45E-01	1.55E-03	1.20E-02
Pyrene			1.47E-01		1.17E+00	2.09E-03	1.67E-02
Vanadium			1.97E+01		2.34E+01	2.80E-01	3.33E-01
			1.89E-01		1.17E+00	2.00L 01	
						2.705.02	
LPAH						2.70E-03	1.66E-02
LPAH HPAH			1.14E+00		7.90E+00	1.62E-02	1.13E-01
LPAH HPAH							
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *	AUF)/(BW) + (Ca *	IR * DFa * AUF) / (	1.14E+00 1.33E+00	' IR * DFs *AU	7.90E+00 9.07E+00	1.62E-02	1.13E-01
LPAH HPAH TOTAL PAHs	AUF)/(BW) + (Ca *	, ,	1.14E+00 1.33E+00	' IR * DFs *AU	7.90E+00 9.07E+00	1.62E-02	1.13E-01
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe * Parameter	Defin	, ,	1.14E+00 1.33E+00 BW) + ((Cp <sup>3</sup>	' IR * DFs *AU	7.90E+00 9.07E+00	1.62E-02 1.89E-02	1.13E-01 1.29E-01
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe * Parameter Intake	Defin Intake	ition e of chemical (mg/kg	1.14E+00 1.33E+00 BW) + ((Cp <sup>3</sup>	' IR * DFs *AU	7.90E+00 9.07E+00	1.62E-02 1.89E-02 Value calculated	1.13E-01 1.29E-01 Reference
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce	Defin Intake Earth	ition e of chemical (mg/kg worm concentration	1.14E+00 1.33E+00 BW) + ((Cp *	' IR * DFs *AU	7.90E+00 9.07E+00	1.62E-02 1.89E-02  Value calculated see FoodConc page	1.13E-01 1.29E-01 Reference
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca	Defin Intake Earth Arthro	ition e of chemical (mg/kg worm concentration	1.14E+00 1.33E+00 BW) + ((Cp * g-day) (mg/kg) (mg/kg)	' IR * DFs *AU	7.90E+00 9.07E+00	1.62E-02 1.89E-02  Value calculated see FoodConc page see FoodConc page	1.13E-01 1.29E-01 Reference
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp	Defin Intake Earth Arthro Plant	ition e of chemical (mg/kg worm concentration ppod concentration concentration (mg/kg	1.14E+00 1.33E+00 BW) + ((Cp '	' IR * DFs *AU	7.90E+00 9.07E+00	Value calculated see FoodConc page see FoodConc page	1.13E-01 1.29E-01 Reference
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR	Defin Intake Earth Arthro Plant Inges	ition e of chemical (mg/kg worm concentration pod concentration concentration (mg/kg tion rate of of food (	1.14E+00 1.33E+00 BW) + ((Cp ' g-day) (mg/kg) (mg/kg) (g) kg/day)		7.90E+00 9.07E+00	Value calculated see FoodConc page see FoodConc page see FoodConc page 3.52E-02	1.13E-01 1.29E-01 Reference
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR	Defin Intake Earth Arthro Plant Inges	ition e of chemical (mg/kg worm concentration ppod concentration concentration (mg/kg	1.14E+00 1.33E+00 BW) + ((Cp ' g-day) (mg/kg) (mg/kg) (g) kg/day)		7.90E+00 9.07E+00	Value calculated see FoodConc page see FoodConc page	1.13E-01 1.29E-01 Reference
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR Dfe	Defin Intake Earth Arthro Plant Inges Dieta	ition e of chemical (mg/kg worm concentration pod concentration concentration (mg/kg tion rate of of food (	1.14E+00 1.33E+00 BW) + ((Cp ' g-day) (mg/kg) (mg/kg) (gg) kg/day) vorms (unitles	ss)	7.90E+00 9.07E+00	Value calculated see FoodConc page see FoodConc page see FoodConc page 3.52E-02	1.13E-01 1.29E-01 Reference
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR Dfe Dfa	Defin Intake Earth Arthro Plant Inges Dieta Dieta	ition e of chemical (mg/kgworm concentration ppod concentration concentration (mg/kgworm) tion rate of of food (ry fraction of earthwry fraction of arthropy	1.14E+00 1.33E+00 BW) + ((Cp '	ss) s)	7.90E+00 9.07E+00 F)/(BW))	Value calculated see FoodConc page see FoodConc page see FoodConc page 4.60E-01 4.60E-01	1.13E-01 1.29E-01 Reference  EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR Dfe Dfa Dfs	Defin Intake Earth Arthre Plant Inges Dieta Dieta Dieta	e of chemical (mg/kg worm concentration opod concentration concentration (mg/l tion rate of of food ( ry fraction of earthw ry fraction of plants,	1.14E+00 1.33E+00 BW) + ((Cp '	ss) s)	7.90E+00 9.07E+00 F)/(BW))	Value  calculated see FoodConc page see FoodConc page 3.52E-02 4.60E-01 4.60E-01 8.00E-02	1.13E-01 1.29E-01 Reference EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993 EPA, 1993
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR Dfe Dfa Dfa Dfs AUF	Defin Intake Earth Arthr Plant Inges Dieta Dieta Dieta Area	e of chemical (mg/kg worm concentration oppod concentration concentration (mg/l tion rate of of food ( ry fraction of earthw ry fraction of plants, Use Factor	1.14E+00 1.33E+00 BW) + ((Cp '	ss) s)	7.90E+00 9.07E+00 F)/(BW))	Value calculated see FoodConc page see FoodConc page see FoodConc page see FoodConc page 4.60E-01 4.60E-01 8.00E-02 1	1.13E-01 1.29E-01 Reference EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR Dfe Dfa Dfa Dfs AUF	Defin Intake Earth Arthr Plant Inges Dieta Dieta Dieta Area	e of chemical (mg/kg worm concentration opod concentration concentration (mg/l tion rate of of food ( ry fraction of earthw ry fraction of plants,	1.14E+00 1.33E+00 BW) + ((Cp '	ss) s)	7.90E+00 9.07E+00 F)/(BW))	Value  calculated see FoodConc page see FoodConc page 3.52E-02 4.60E-01 4.60E-01 8.00E-02	1.13E-01 1.29E-01 Reference EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993 EPA, 1993
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR Dfe Dfa Dfs AUF BW	Defin Intake Earth Arthre Plant Inges Dieta Dieta Dieta Area Body  Average	ition e of chemical (mg/kg worm concentration pood concentration (mg/kg tion rate of of food ( ry fraction of earthw ry fraction of plants, Use Factor weight (kg)  ME Average	1.14E+00 1.33E+00 BW) + ((Cp * g-day) (mg/kg) (mg/kg) (g) kg/day) orms (unitles seeds and c	ss) s) other vegetation Average	7.90E+00 9.07E+00 F)/(BW))	Value calculated see FoodConc page see FoodConc page see FoodConc page 3.52E-02 4.60E-01 4.60E-01 8.00E-02 1 8.00E-02 Average	1.13E-01 1.29E-01 Reference  EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1999
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR Dfe Dfa Dfs AUF BW	Defin Intake Earth Arthre Plant Inges Dieta Dieta Dieta Area Body  Average	ition e of chemical (mg/kg worm concentration pood concentration (mg/kg tion rate of of food ( ry fraction of earthw ry fraction of plants, Use Factor weight (kg)  ME Average	1.14E+00 1.33E+00 BW) + ((Cp '	ss) s) other vegetatio	7.90E+00 9.07E+00 F)/(BW))	Value calculated see FoodConc page see FoodConc page see FoodConc page 3.52E-02 4.60E-01 4.60E-01 8.00E-02 1 8.00E-02	1.13E-01 1.29E-01 Reference  EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1999
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR Dfe Dfa Dfs AUF BW  Chemical	Defin Intake Earth Arthre Plant Inges Dieta Dieta Dieta Area Body  Average Earthworm Eart	e of chemical (mg/kg worm concentration oppod concentration concentration (mg/kg) tion rate of of food (mg/kg) tion rate of of food (mg/kg) traction of earthwork (mg/kg) fraction of arthropy fraction of plants, Use Factor weight (kg)	1.14E+00 1.33E+00 BW) + ((Cp ' g-day) (mg/kg) (mg/kg) (g) kg/day) ooms (unitlest seeds and o	ss) s) other vegetation Average Plant	7.90E+00 9.07E+00 F)/(BW))	Value calculated see FoodConc page see FoodConc page see FoodConc page 3.52E-02 4.60E-01 4.60E-01 8.00E-02 1 8.00E-02  Average Intake	1.13E-01 1.29E-01 Reference  EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1999  RME Intake
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IIR Dfe Dfa Dfs AUF BW  Chemical 2-Methylnaphthalene	Defin Intake Earth Arthre Plant Inges Dieta Dieta Dieta Area Body  Average Earthworm Eart  0.00E+00 0.0	ition e of chemical (mg/kg) worm concentration pood concentration (mg/kg) tion rate of of food ( ry fraction of earthwr ry fraction of arthrop ry fraction of plants, Use Factor weight (kg)  ME Average hworm Arthropod  00E+00 0.00E+00	1.14E+00 1.33E+00 1.33E+00 BW) + ((Cp ' g-day) (mg/kg) (mg/kg) (mg/kg) (mg/kg) vorms (unitlesiseds and constant of the constan	Average Plant 0.00E+00	7.90E+00 9.07E+00 F)/(BW)) on (unitless) RME Plant 0.00E+00	Value calculated see FoodConc page see FoodConc page see FoodConc page see FoodConc page 1.52E-02 1.60E-01 1.60E-01 1.00E-02 1 2.00E-02 Average Intake 0.00E+00	1.13E-01 1.29E-01 Reference  EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1999  RME Intake 0.00E+00
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR Dfe Dfa Dfs AUF BW  Chemical 2-Methylnaphthalene 4,4'-DDE	Defin Intake Earth Arthre Plant Inges Dieta Dieta Dieta Area Body  Average Earthworm Eart  0.00E+00 8.82E-04 3.	ition of chemical (mg/ky) worm concentration oppod concentration (mg/k) tion rate of of food (ry fraction of earthwry fraction of earthwry fraction of plants, Use Factor weight (kg)  ME Average hworm Arthropod  00E+00 0.00E+00 02E-03 8.82E-04	1.14E+00 1.33E+00 1.33E+00 BW) + ((Cp '	Average Plant  0.00E+00 6.56E-06	7.90E+00 9.07E+00 F)/(BW)) In (unitless) RME Plant 0.00E+00 2.25E-05	Value calculated see FoodConc page see FoodConc page see FoodConc page 3.52E-02 4.60E-01 4.60E-01 8.00E-02 1 8.00E-02 Average Intake 0.00E+00 3.57E-04	1.13E-01 1.29E-01 Reference  EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1999  RME Intake  0.00E+00 1.22E-03
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe * Parameter Intake Ce Ca Cp IR Dfe Dfa Dfs AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDE 4,4'-DDT	Defin Intake Earth Arthre Plant Inges Dieta Dieta Dieta Area Body  Average Earthworm  0.00E+00 8.82E-04 3.8.87E-04 4.	ition e of chemical (mg/kg worm concentration pood concentration (mg/kg tion rate of of food (mg/kg tion rate of of food (mg/kg tion rate of of food (mg/kg tion rate of of food (mg/kg tion rate of of food (mg/kg tion rate of of food (mg/kg tion rate of of arthrop ty fraction of plants, Use Factor weight (kg)  ME Average hworm Arthropod  DOE+00 0.00E+00 02E-03 8.82E-04 T9E-03 8.87E-04	1.14E+00 1.33E+00 1.33E+00 BW) + ((Cp * g-day) (mg/kg) (mg/kg) (g) kg/day) oorms (unitles seeds and company (unitles seeds and co	Average Plant  0.00E+00 6.56E-06 6.60E-06	7.90E+00 9.07E+00 F)/(BW))  RME Plant 0.00E+00 2.25E-05 3.56E-05	Value	1.13E-01 1.29E-01 Reference  EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1997 EPA, 1999  RME Intake  0.00E+00 1.22E-03 1.94E-03
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe * Parameter Intake Ce Ca Cp IR Dfe Dfa Dfs AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDE 4,4'-DDT	Defin   Intake   Earth   Arthro   Plant   Inges   Dieta   Dieta   Dieta   Dieta   Area   Body	ition a of chemical (mg/kg worm concentration) pood concentration (mg/kg tion rate of of food (ng/kg tion rate of of plants, Use Factor weight (kg)  ME Average hworm Arthropod  00E+00 0.00E+00  02E-03 8.82E-04 79E-03 8.87E-04 00E+00 0.00E+00	1.14E+00 1.33E+00 1.33E+00 BW) + ((Cp ' g-day) (mg/kg) (mg/kg) (g) kg/day) forms (unitlest soods (unitlest seeds and co RME Arthropod 0.00E+00 3.02E-03 4.79E-03 0.00E+00	Average Plant  0.00E+00 6.56E-06 6.60E-06 0.00E+00	7.90E+00 9.07E+00 F)/(BW)) In (unitless) RME Plant 0.00E+00 2.25E-05	Value calculated see FoodConc page see FoodConc page see FoodConc page 3.52E-02 4.60E-01 4.60E-01 8.00E-02 1 8.00E-02 Average Intake 0.00E+00 3.57E-04	1.13E-01 1.29E-01 Reference  EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1999  RME Intake  0.00E+00 1.22E-03
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR Dfe Dfa Dfa Dfs AUF	Defin   Intake   Earth   Arthro   Plant   Inges   Dieta   Dieta   Dieta   Dieta   Area   Body	ition e of chemical (mg/kg worm concentration pood concentration (mg/kg tion rate of of food (mg/kg tion rate of of food (mg/kg tion rate of of food (mg/kg tion rate of of food (mg/kg tion rate of of food (mg/kg tion rate of of food (mg/kg tion rate of of arthrop ty fraction of plants, Use Factor weight (kg)  ME Average hworm Arthropod  DOE+00 0.00E+00 02E-03 8.82E-04 T9E-03 8.87E-04	1.14E+00 1.33E+00 1.33E+00 BW) + ((Cp * g-day) (mg/kg) (mg/kg) (g) kg/day) oorms (unitles seeds and company (unitles seeds and co	Average Plant  0.00E+00 6.56E-06 6.60E-06 0.00E+00	7.90E+00 9.07E+00 F)/(BW))  RME Plant 0.00E+00 2.25E-05 3.56E-05	Value	1.13E-01 1.29E-01 Reference  EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1997 EPA, 1999  RME Intake  0.00E+00 1.22E-03 1.94E-03
LPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Ce * IR * Dfe *  Parameter Intake Ce Ca Cp IR Dfe Dfa Dfs AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDE 4,4'-DDT Acenaphthene	Defin Intake Earth Arthre Plant Inges Dieta Dieta Dieta Area Body  Average Earthworm  0.00E+00 8.82E-04 3.8.87E-04 4.0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	ition a of chemical (mg/kg worm concentration) pood concentration (mg/kg tion rate of of food (ng/kg tion rate of of plants, Use Factor weight (kg)  ME Average hworm Arthropod  00E+00 0.00E+00  02E-03 8.82E-04 79E-03 8.87E-04 00E+00 0.00E+00	1.14E+00 1.33E+00 1.33E+00 BW) + ((Cp ' g-day) (mg/kg) (mg/kg) (g) kg/day) forms (unitlest soods (unitlest seeds and co RME Arthropod 0.00E+00 3.02E-03 4.79E-03 0.00E+00	Average Plant  0.00E+00 6.56E-06 6.60E-06 0.00E+00	7.90E+00 9.07E+00 F)/(BW)) In (unitless) RME Plant 0.00E+00 2.25E-05 3.56E-05 0.00E+00	Value	1.13E-01 1.29E-01 Reference  EPA, 1999 (normalized for bw EPA, 1993 EPA, 1993 EPA, 1993 EPA, 1997 EPA, 1999  RME Intake  0.00E+00 1.22E-03 1.94E-03 0.00E+00

## TABLE D-8 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN AMERICAN ROBIN

Benzo(a)anthracene	2.04E-03	1.39E-02	2.04E-03	1.39E-02	1.37E-03	9.37E-03	8.74E-04	5.96E-03	
Benzo(a)pyrene	6.45E-03	3.88E-02	6.45E-03	3.88E-02	9.31E-04	5.60E-03	2.65E-03	1.59E-02	
Benzo(b)fluoranthene	8.40E-03	4.54E-02	8.40E-03	4.54E-02	1.21E-03	6.55E-03	3.44E-03	1.86E-02	
Benzo(g,h,i)perylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Benzo(k)fluoranthene	4.81E-03	2.73E-02	4.81E-03	2.73E-02	6.07E-04	3.44E-03	1.97E-03	1.12E-02	
Boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Cadmium	1.85E-01	5.66E-01	1.85E-01	5.66E-01	7.03E-02	2.15E-01	7.75E-02	2.37E-01	
Chrysene	3.54E-03	2.12E-02	3.54E-03	2.12E-02	1.65E-03	9.89E-03	1.49E-03	8.91E-03	
Dibenz(a,h)anthracene	2.69E-03	1.24E-02	2.69E-03	1.24E-02	2.46E-04	1.13E-03	1.10E-03	5.06E-03	
Dieldrin	7.15E-03	5.00E-02	7.15E-03	5.00E-02	1.70E-05	1.19E-04	2.90E-03	2.02E-02	
Endrin	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	4.37E-05	6.16E-07	1.54E-06	
Endrin Ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	1.79E-04	1.77E-06	6.29E-06	
Fluoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Fluorene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Indeno(1,2,3-cd)pyrene	1.06E-02	4.62E-02	1.06E-02	4.62E-02	5.19E-04	2.25E-03	4.33E-03	1.88E-02	
Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Nickel	3.43E-01	3.76E-01	3.43E-01	3.76E-01	5.49E-01	6.01E-01	1.58E-01	1.73E-01	
Phenanthrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Pyrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Vanadium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
LPAH	1.26E-02	6.22E-02	1.26E-02	6.22E-02	3.65E-03	1.79E-02	5.25E-03	2.58E-02	
HPAH	6.90E-02	3.91E-01	6.90E-02	3.91E-01	1.99E-02	1.13E-01	2.86E-02	1.62E-01	
TOTAL PAHs	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

TOTAL INTAKE

INTAKE = Soil Intake + Food Intake

	TOTAL	TOTAL
	Average	RME
Chemical	Intake	Intake
2-Methylnaphthalene	1.75E-04	3.92E-04
4,4'-DDE	3.73E-04	1.36E-03
4,4'-DDT	3.76E-04	2.04E-03
Acenaphthene	2.29E-04	7.52E-04
Acenaphthylene	1.41E-04	3.33E-04
Anthracene	3.66E-04	2.39E-03
Aroclor-1254	2.62E-03	7.80E-03
Benzo(a)anthracene	1.89E-03	1.62E-02
Benzo(a)pyrene	4.27E-03	2.85E-02
Benzo(b)fluoranthene	5.52E-03	2.36E-02
Benzo(g,h,i)perylene	1.88E-03	1.20E-02
Benzo(k)fluoranthene	2.95E-03	1.84E-02
Boron	1.14E-01	1.92E-01
Cadmium	8.04E-02	2.48E-01
Chrysene	2.94E-03	2.05E-02
Dibenz(a,h)anthracene	1.77E-03	9.10E-03
Dieldrin	2.90E-03	2.03E-02
Endrin	4.95E-06	1.24E-05
Endrin Ketone	1.42E-05	5.05E-05
Fluoranthene	2.27E-03	1.94E-02
Fluorene	2.32E-04	7.07E-04
Indeno(1,2,3-cd)pyrene	6.48E-03	3.26E-02
Naphthalene	0.00E+00	0.00E+00
Nickel	4.01E-01	4.69E-01
Phenanthrene	1.55E-03	1.20E-02
Pyrene	2.09E-03	1.67E-02
Vanadium	2.80E-01	3.33E-01
LPAH	7.94E-03	4.24E-02
HPAH	4.48E-02	2.75E-01
TOTAL PAHs	1.89E-02	1.29E-01

# TABLE D-9 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN RED-TAILED HAWK

### **RED-TAILED HAWK** FOOD INGESTION INTAKE = ((Cm \* IR \* Dfm \* AUF)/(BW) + (Cb \* IR \* DFb \* AUF) / (BW)) Parameter Definition Value Reference Intake of chemical (mg/kg-day) Intake calculated Mammal concentration (mg/kg) see FoodConc page Cm Cb Bird concentration (mg/kg) see FoodConc page 1.78E-01 EPA, 1999 (normalized for bw) IR Ingestion rate of of food (kg/day) Dfm Dietary fraction of small mammals (unitless) 7.85E-01 EPA, 1993 Dietary fraction of birds (unitless) EPA, 1993 Dfb 2.15E-01 AUF Area Use Factor EPA, 1997 BW Body weight (kg) 9.60E-01 EPA, 1999 Average RME Average RME Average **RME** Mammal Mammal Bird Bird Intake Intake Chemical 2-Methylnaphthalene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 4.4'-DDE 6.54E-05 3.94E-05 1.91F-05 1.15F-05 3 23F-06 1.11F-05 4,4'-DDT 1.92E-05 1.04E-04 1.16E-05 6.24E-05 3.25E-06 1.75E-05 Acenaphthene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Acenaphthylene 0.00E+000.00E+00 Anthracene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 8.21E-05 Aroclor-1254 4.09E-04 2 46F-04 1.36E-04 2.31E-05 6.92E-05 Benzo(a)anthracene 4.90E-04 3.34E-03 2.95E-04 2.01E-03 8.29E-05 5.66E-04 Benzo(a)pyrene 1.88E-03 1.13E-02 1.13E-03 6.80E-03 3.18E-04 1.91E-03 Benzo(b)fluoranthene 2.89E-03 1.56E-02 1.73E-03 9.38E-03 4.88E-04 2.64E-03 Benzo(g,h,i)perylene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Benzo(k)fluoranthene 1.44E-03 8 17F-03 8 62F-04 4.89E-03 2 43F-04 1.38F-03 Boron 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Cadmium 1.39E-05 4.25E-05 9.38E-03 2.87E-02 3 75F-04 1.15E-03 Chrysene 7.34E-04 4.39E-03 4.42E-04 2.64E-03 1.24E-04 7.42E-04 Dibenz(a,h)anthracene 2.04E-03 9.42E-03 1.23E-03 5.68E-03 3.46E-04 1.59E-03 Dieldrin 2.75F-06 1.92F-05 1.79F-06 1.25F-05 4 70F-07 3 29F-06 Endrin 7.20E-07 1.80E-06 4.71E-07 1.18E-06 1.23E-07 3.08E-07 Endrin Ketone 2.07E-06 7.35E-06 1.35E-06 4.81E-06 1.26E-06 3.55F-07 Fluoranthene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 Fluorene 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

Indeno(1,2,3-cd)pyrene

Naphthalene

Phenanthrene

TOTAL PAHs

Nickel

Pyrene

LPAH

HPAH

Vanadium

1.65E-02

0.00E+00

6 20F-02

0.00E+00

0.00E+00

9.61E-03

5.24E-02

0.00E+00

7.17E-02

0.00E+00

6 78F-02

0.00E+00 0.00E+00 0.00E+00

0.00E+00

0.00E+00

4.73E-02

2.97E-01

0.00E+00

9 94F-03

0.00E+00

0.00E+00

0.00E+00

0.00E+00

5.80E-03

3.16F-02

0.00E+00

4.31E-02

0.00E+00

0.00F+00

0.00E+00

0.00E+00

0.00E+00

2.85E-02

1.79F-01

0.00E+00

2.80E-03

0.00E+00

9.00F-03

0.00E+00

0.00E+00

0.00E+00

1.63E-03

8.87E-03

0.00E+00

1.21E-02

0.00E+00

9 85F-03

0.00E+00

0.00E+00

0.00E+00

8.00E-03

5.03E-02

0.00E+00

### TABLE D-10 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL NORTH OF MARLIN **DEER MOUSE**

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default

Intake TRV see Intake

2-Methylnaphthalene 4,4'-DDE 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Boron Cadmium Chrysene	1.48E-05 2.99E-04 3.00E-04 2.04E-05 0.00E+00 3.09E-05 2.15E-03 1.14E-03 2.54E-03 3.31E-03 1.38E-04 1.86E-03	2.85E-05 1.02E-03 1.62E-03 5.18E-05 0.00E+00 1.54E-04 6.44E-03 7.81E-03 1.53E-02 1.79E-02 7.11E-04	1.47E-01 1.47E-01 1.55E-01	2.03E-03 2.04E-03 1.38E-02	6.97E-03 1.10E-02 4.15E-02
4,4'-DDE 4,4'-DDT Acenaphthene Acenaphthylene Anthracene Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Boron Cadmium	2.99E-04 3.00E-04 2.04E-05 0.00E+00 3.09E-05 2.15E-03 1.14E-03 2.54E-03 3.31E-03 1.38E-04 1.86E-03	1.02E-03 1.62E-03 5.18E-05 0.00E+00 1.54E-04 6.44E-03 7.81E-03 1.53E-02 1.79E-02	1.47E-01	2.04E-03	1.10E-02
4,4'-DDT Acenaphthene Acenaphthylene Anthracene Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Boron Cadmium	3.00E-04 2.04E-05 0.00E+00 3.09E-05 2.15E-03 1.14E-03 2.54E-03 3.31E-03 1.38E-04 1.86E-03	1.62E-03 5.18E-05 0.00E+00 1.54E-04 6.44E-03 7.81E-03 1.53E-02 1.79E-02	1.47E-01	2.04E-03	1.10E-02
Acenaphthene Acenaphthylene Anthracene Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Boron Cadmium	2.04E-05 0.00E+00 3.09E-05 2.15E-03 1.14E-03 2.54E-03 3.31E-03 1.38E-04 1.86E-03	5.18E-05 0.00E+00 1.54E-04 6.44E-03 7.81E-03 1.53E-02 1.79E-02			
Acenaphthylene Anthracene Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Boron Cadmium	0.00E+00 3.09E-05 2.15E-03 1.14E-03 2.54E-03 3.31E-03 1.38E-04 1.86E-03	0.00E+00 1.54E-04 6.44E-03 7.81E-03 1.53E-02 1.79E-02	1.55E-01	1.38E-02	4.15E-02
Anthracene Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Boron Cadmium	3.09E-05 2.15E-03 1.14E-03 2.54E-03 3.31E-03 1.38E-04 1.86E-03	1.54E-04 6.44E-03 7.81E-03 1.53E-02 1.79E-02	1.55E-01	1.38E-02	4.15E-02
Aroclor-1254 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Boron Cadmium	2.15E-03 1.14E-03 2.54E-03 3.31E-03 1.38E-04 1.86E-03	6.44E-03 7.81E-03 1.53E-02 1.79E-02	1.55E-01	1.38E-02	4.15E-02
Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Boron Cadmium	1.14E-03 2.54E-03 3.31E-03 1.38E-04 1.86E-03	7.81E-03 1.53E-02 1.79E-02	1.002 01	1.002 02	4.100 02
Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Boron Cadmium	2.54E-03 3.31E-03 1.38E-04 1.86E-03	1.53E-02 1.79E-02			
Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Boron Cadmium	3.31E-03 1.38E-04 1.86E-03	1.79E-02			
Benzo(g,h,i)perylene Benzo(k)fluoranthene Boron Cadmium	1.38E-04 1.86E-03				
Benzo(k)fluoranthene Boron Cadmium	1.86E-03				
Boron ´´ Cadmium		1.06E-02			
Cadmium	1.09E-02	2.96E-02			
	8.10E-02	2.48E-01	7.70E-01	1.05E-01	3.22E-01
	1.75E-03	1.05E-02	7.702 01	1.002 01	0.222 01
Dibenz(a,h)anthracene	1.02E-03	4.71E-03			
Dieldrin	2.41E-03	1.68E-02	1.50E-02	1.60E-01	1.12E+00
Endrin	4.62E-06	1.15E-05	9.20E-02	5.02E-05	1.25E-04
Endrin Ketone	1.33E-05	4.71E-05	9.20E-02	1.44E-04	5.12E-04
Fluoranthene	2.10E-04	1.33E-03	3.202 02	1.446 04	0.122 04
Fluorene	1.61E-05	4.06E-05			
Indeno(1,2,3-cd)pyrene	3.90E-03	1.69E-02			
Naphthalene	3.40E-05	1.47E-04			
Nickel	2.85E-01	3.12E-01	1.70E+00	1.68E-01	1.83E-01
Phenanthrene	1.44E-04	8.56E-04	1.702100	1.002 01	1.002 01
Pyrene	2.06E-04	1.27E-03			
Vanadium	2.96E-02	3.30E-02	4.16E+00	7.11E-03	7.92E-03
LPAH	5.46E-03	2.69E-02	6.56E+01	8.33E-05	4.10E-04
HPAH	2.98E-02	1.69E-01	6.15E-01	4.85E-02	2.75E-01
TOTAL PAHs	1.68E-03	9.32E-03	0.102 01	1.002 02	2.702 01

### TABLE D-11 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL NORTH OF MARLIN COYOTE

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default see Intake

Intake TRV see TRV summary page

Chemical	Average Intake	RME Intake	TRV Coyote	Average EHQ	RME EHQ
			22,232		
2-Methylnaphthalene	0.00E+00	0.00E+00			
4,4'-DDE	1.72E-06	5.89E-06	1.47E-01	1.17E-05	4.01E-05
4,4'-DDT	1.73E-06	9.33E-06	1.47E-01	1.18E-05	6.35E-05
Acenaphthene	0.00E+00	0.00E+00			
Acenaphthylene	0.00E+00	0.00E+00			
Anthracene	0.00E+00	0.00E+00			
Aroclor-1254	1.23E-05	3.68E-05	1.55E-01	7.92E-05	2.38E-04
Benzo(a)anthracene	4.41E-05	3.01E-04			
Benzo(a)pyrene	1.69E-04	1.02E-03			
Benzo(b)fluoranthene	2.60E-04	1.41E-03			
Benzo(g,h,i)perylene	0.00E+00	0.00E+00			
Benzo(k)fluoranthene	1.30E-04	7.35E-04			
Boron	0.00E+00	0.00E+00			
Cadmium	2.36E-04	7.20E-04	7.70E-01	3.06E-04	9.35E-04
Chrysene	6.61E-05	3.95E-04			
Dibenz(a,h)anthracene	1.84E-04	8.49E-04			
Dieldrin	2.51E-07	1.75E-06	1.50E-02	1.67E-05	1.17E-04
Endrin	6.58E-08	1.64E-07	9.20E-02	7.15E-07	1.79E-06
Endrin Ketone	1.89E-07	6.71E-07	9.20E-02	2.06E-06	7.30E-06
Fluoranthene	0.00E+00	0.00E+00			
Fluorene	0.00E+00	0.00E+00			
Indeno(1,2,3-cd)pyrene	1.49E-03	6.46E-03			
Naphthalene	0.00E+00	0.00E+00			
Nickel	4.65E-03	5.09E-03	1.70E+00	2.73E-03	2.99E-03
Phenanthrene	0.00E+00	0.00E+00			
Pyrene	0.00E+00	0.00E+00			
Vanadium	0.00E+00	0.00E+00	4.16E+00	0.00E+00	0.00E+00
LPAH	8.66E-04	4.26E-03	6.56E+01	1.32E-05	6.49E-05
HPAH	4.72E-03	2.68E-02	6.15E-01	7.68E-03	4.36E-02
TOTAL PAHs	0.00E+00	0.00E+00			

### TABLE D-12 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL NORTH OF MARLIN **RAT SNAKE**

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Intake TRV Default

see Intake

Chemical	Average Intake	RME Intake	TRV Rat Snake	Average EHQ	RME EHQ
2-Methylnaphthalene	1.07E-05	2.06E-05			
4,4'-DDE	4.53E-06	1.55E-05	2.27E-01	2.00E-05	6.85E-05
4,4'-DDT	4.56E-06	2.46E-05	2.27E-01	2.01E-05	1.08E-04
Acenaphthene	1.48E-05	3.74E-05			
Acenaphthylene	0.00E+00	0.00E+00			
Anthracene	2.24E-05	1.11E-04			
Aroclor-1254	3.31E-05	9.94E-05	1.80E-01	1.84E-04	5.52E-04
Benzo(a)anthracene	8.60E-05	5.87E-04			
Benzo(a)pyrene	1.49E-04	8.96E-04			
Benzo(b)fluoranthene	2.00E-04	1.08E-03			
Benzo(g,h,i)perylene	9.99E-05	5.14E-04			
Benzo(k)fluoranthene	1.03E-04	5.83E-04			
Boron	7.88E-03	2.14E-02			
Cadmium	9.76E-04	2.98E-03	1.45E+00	6.73E-04	2.06E-03
Chrysene	1.17E-04	6.99E-04			
Dibenz(a,h)anthracene	8.05E-05	3.71E-04			
Dieldrin	2.87E-05	2.00E-04	7.09E-02	4.04E-04	2.82E-03
Endrin	1.06E-08	2.65E-08	1.00E-02	1.06E-06	2.65E-06
Endrin Ketone	3.06E-08	1.08E-07	1.00E-02	3.06E-06	1.08E-05
Fluoranthene	1.52E-04	9.60E-04			
Fluorene	1.16E-05	2.93E-05			
Indeno(1,2,3-cd)pyrene	4.22E-04	1.83E-03			
Naphthalene	2.45E-05	1.06E-04			
Nickel	2.00E-02	2.19E-02	6.71E+00	2.98E-03	3.26E-03
Phenanthrene	1.04E-04	6.19E-04			
Pyrene	1.49E-04	9.14E-04			
Vanadium	2.14E-02	2.38E-02	3.44E-01	6.21E-02	6.92E-02
LPAH	3.78E-04	1.86E-03	6.56E+01	5.77E-06	2.84E-05
HPAH	2.06E-03	1.17E-02	6.15E-01	3.36E-03	1.90E-02
TOTAL PAHs	1.21E-03	6.73E-03			

## TABLE D-13 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL NORTH OF MARLIN AMERICAN ROBIN

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default

Intake TRV see Intake

Chemical	Average Intake	RME Intake	TRV American Robin	Average EHQ	RME EHQ
2-Methylnaphthalene	1.75E-04	3.92E-04			
4,4'-DDE	3.73E-04	1.36E-03	2.27E-01	1.64E-03	5.98E-03
4.4'-DDT	3.76E-04	2.04E-03	2.27E-01	1.66E-03	9.00E-03
Acenaphthene	2.29E-04	7.52E-04			
Acenaphthylene	1.41E-04	3.33E-04			
Anthracene	3.66E-04	2.39E-03			
Aroclor-1254	2.62E-03	7.80E-03	1.80E-01	1.45E-02	4.33E-02
Benzo(a)anthracene	1.89E-03	1.62E-02			
Benzo(a)pyrene	4.27E-03	2.85E-02			
Benzo(b)fluoranthene	5.52E-03	2.36E-02			
Benzo(g,h,i)perylene	1.88E-03	1.20E-02			
Benzo(k)fluoranthene	2.95E-03	1.84E-02			
Boron	1.14E-01	1.92E-01			
Cadmium	8.04E-02	2.48E-01	1.47E+00	5.47E-02	1.69E-01
Chrysene	2.94E-03	2.05E-02			
Dibenz(a,h)anthracene	1.77E-03	9.10E-03			
Dieldrin	2.90E-03	2.03E-02	7.09E-02	4.09E-02	2.86E-01
Endrin	4.95E-06	1.24E-05	1.00E-02	4.95E-04	1.24E-03
Endrin Ketone	1.42E-05	5.05E-05	1.00E-02	1.42E-03	5.05E-03
Fluoranthene	2.27E-03	1.94E-02			
Fluorene	2.32E-04	7.07E-04			
Indeno(1,2,3-cd)pyrene	6.48E-03	3.26E-02			
Naphthalene	0.00E+00	0.00E+00			
Nickel	4.01E-01	4.69E-01	6.71E+00	5.98E-02	6.99E-02
Phenanthrene	1.55E-03	1.20E-02			
Pyrene	2.09E-03	1.67E-02			
Vanadium	2.80E-01	3.33E-01	3.44E-01	8.14E-01	9.69E-01
LPAH	7.94E-03	4.24E-02	6.56E+01	1.21E-04	6.47E-04
HPAH	4.48E-02	2.75E-01	6.15E-01	7.29E-02	4.47E-01
TOTAL PAHs	1.89E-02	1.29E-01			

### TABLE D-14 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL NORTH OF MARLIN **RED-TAILED HAWK**

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default

Intake TRV see Intake

Chemical	Average Intake	RME Intake	TRV Red-Tailed Hawk	Average EHQ	RME EHQ
2-Methylnaphthalene	0.00E+00	0.00E+00			
4,4'-DDE	3.23E-06	1.11E-05	2.27E-01	1.42E-05	4.88E-05
4,4'-DDT	3.25E-06	1.75E-05	2.27E-01	1.43E-05	7.72E-05
Acenaphthene	0.00E+00	0.00E+00			
Acenaphthylene	0.00E+00	0.00E+00			
Anthracene	0.00E+00	0.00E+00			
Aroclor-1254	2.31E-05	6.92E-05	1.80E-01	1.28E-04	3.85E-04
Benzo(a)anthracene	8.29E-05	5.66E-04			
Benzo(a)pyrene	3.18E-04	1.91E-03			
Benzo(b)fluoranthene	4.88E-04	2.64E-03			
Benzo(g,h,i)perylene	0.00E+00	0.00E+00			
Benzo(k)fluoranthene	2.43E-04	1.38E-03			
Boron	0.00E+00	0.00E+00			
Cadmium	3.75E-04	1.15E-03	1.47E+00	2.55E-04	7.80E-04
Chrysene	1.24E-04	7.42E-04			
Dibenz(a,h)anthracene	3.46E-04	1.59E-03			
Dieldrin	4.70E-07	3.29E-06	7.09E-02	6.64E-06	4.64E-05
Endrin	1.23E-07	3.08E-07	1.00E-02	1.23E-05	3.08E-05
Endrin Ketone	3.55E-07	1.26E-06	1.00E-02	3.55E-05	1.26E-04
Fluoranthene	0.00E+00	0.00E+00			
Fluorene	0.00E+00	0.00E+00			
Indeno(1,2,3-cd)pyrene	2.80E-03	1.21E-02			
Naphthalene	0.00E+00	0.00E+00			
Nickel	9.00E-03	9.85E-03	6.71E+00	1.34E-03	1.47E-03
Phenanthrene	0.00E+00	0.00E+00			
Pyrene	0.00E+00	0.00E+00			
Vanadium	0.00E+00	0.00E+00	3.44E-01	0.00E+00	0.00E+00
LPAH	1.63E-03	8.00E-03	6.56E+01	2.48E-05	1.22E-04
HPAH	8.87E-03	5.03E-02	6.15E-01	1.44E-02	8.18E-02
TOTAL PAHs	0.00E+00	0.00E+00			

## TABLE D-15 AVERAGE CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg)

Cfood = Csoil x BCF (or BAF)

Cfood = Csoil = BCF BAF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Bioconcentration Factor (unitless) Bioaccumulation Factor (unitless)

Compound	Average Csoil	Soil to Earthworm	Earthworm Reference	Soil to Arthropod	Arthropod Reference	Soil to Plant	Plant/Fruit/Seed Reference	Plant to Wildlife	Plant to Deer Mouse Reference	Soil to Wildlife	Soil to Deer Mouse Reference	TOTAL DEER MOUSE	Plant to Bird	Plant to Bird Reference	Soil to Bird	Soil to Bird Reference	TOTAL BIRD
	(mg/kg)	BCF C	oncentration	BCF	Concentration	BAF	Concentration	BCF	Concentration	BCF	Concentration	CONCENTRATION	BCF	Concentration	BCF	Concentration	CONCENTRATION
2-Methylnaphthalene	1.03E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
4,4'-DDE	7.00E-04	1.26E+00	8.82E-04 EPA, 1999	1.26E+00	8.82E-04 EPA, 1999	9.37E-03	6.56E-06 EPA, 1999	2.72E-02	1.90E-05 EPA, 1999	6.52E-05	4.56E-08 EPA, 1999	1.91E-05	1.59E-02	1.11E-05 EPA, 1999	5.10E-0	4 3.57E-07 EPA, 1999	1.15E-05
4,4'-DDT	7.04E-04	1.26E+00	8.87E-04 EPA, 1999	1.26E+00	0 8.87E-04 EPA, 1999	9.37E-03	6.60E-06 EPA, 1999	2.72E-02	1.91E-05 EPA, 1999	6.52E-05	4.59E-08 EPA, 1999	1.92E-05	1.59E-02	1.12E-05 EPA, 1999	5.10E-04	4 3.59E-07 EPA, 1999	1.16E-05
Acenaphthene	1.42E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Acenaphthylene	0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Anthracene	2.15E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Aroclor-1254	5.60E-03	1.13E+00	6.33E-03 EPA, 1999	1.13E+00	0 6.33E-03 EPA, 1999	1.00E-02	5.60E-05 EPA, 1999	2.43E-02	1.36E-04 EPA, 1999	5.83E-05	3.26E-07 EPA, 1999	1.36E-04	1.42E-02	7.95E-05 EPA, 1999	4.55E-04	4 2.55E-06 EPA, 1999	8.21E-05
Benzo(a)anthracene	6.80E-02	3.00E-02	2.04E-03 EPA, 1999	3.00E-02	2 2.04E-03 EPA, 1999	2.02E-02	1.37E-03 EPA, 1999	7.19E-03	4.89E-04 EPA, 1999	1.73E-05	1.18E-06 EPA, 1999	4.90E-04	4.20E-03	2.86E-04 EPA, 1999	1.35E-0	4 9.18E-06 EPA, 1999	2.95E-04
Benzo(a)pyrene	9.22E-02	7.00E-02	6.45E-03 EPA, 1999	7.00E-02	2 6.45E-03 EPA, 1999	1.01E-02	9.31E-04 EPA, 1999	2.03E-02	1.87E-03 EPA, 1999	4.86E-05	4.48E-06 EPA, 1999	1.88E-03	1.19E-02	1.10E-03 EPA, 1999	3.81E-04	4 3.51E-05 EPA, 1999	1.13E-03
Benzo(b)fluoranthene	1.20E-01	7.00E-02	8.40E-03 EPA, 1999	7.00E-02		1.01E-02	1.21E-03 EPA, 1999	2.40E-02	2.88E-03 EPA, 1999	5.75E-05	6.90E-06 EPA, 1999	2.89E-03	1.40E-02	1.68E-03 EPA, 1999	4.50E-04	4 5.40E-05 EPA, 1999	1.73E-03
Benzo(g,h,i)perylene	9.61E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Benzo(k)fluoranthene	6.01E-02	8.00E-02	4.81E-03 EPA, 1999	8.00E-02		1.01E-02	6.07E-04 EPA, 1999	2.39E-02	1.44E-03 EPA, 1999	5.73E-05	3.44E-06 EPA, 1999	1.44E-03	1.39E-02	8.35E-04 EPA, 1999	4.48E-04		8.62E-04
Boron	7.58E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Cadmium	1.93E-01	9.60E-01	1.85E-01 EPA, 1999	9.60E-01	1 1.85E-01 EPA, 1999	3.64E-01	7.03E-02 EPA, 1999	7.19E-05	1.39E-05 EPA, 1999	1.73E-07	3.34E-08 EPA, 1999	1.39E-05	4.71E-02	9.09E-03 EPA, 1999	1.51E-03	3 2.91E-04 EPA, 1999	9.38E-03
Chrysene	8.85E-02	4.00E-02	3.54E-03 EPA, 1999	4.00E-02		1.87E-02	1.65E-03 EPA, 1999	8.27E-03	7.32E-04 EPA, 1999	1.99E-05	1.76E-06 EPA, 1999	7.34E-04	4.84E-03	4.28E-04 EPA, 1999	1.55E-04	4 1.37E-05 EPA, 1999	4.42E-04
Dibenz(a,h)anthracene	3.84E-02	7.00E-02	2.69E-03 EPA, 1999	7.00E-02		6.40E-03	2.46E-04 EPA, 1999	5.31E-02	2.04E-03 EPA, 1999	1.27E-04	4.88E-06 EPA, 1999	2.04E-03	3.11E-02	1.19E-03 EPA, 1999	9.98E-0	4 3.83E-05 EPA, 1999	1.23E-03
Dieldrin	4.87E-04	1.47E+01	7.15E-03 EPA, 2005f	1.47E+01	1 7.15E-03 EPA, 2005f	3.49E-02	1.70E-05 EPA, 1998	5.65E-03	2.75E-06 EPA, 1998		0.00E+00	2.75E-06	3.68E-03	1.79E-06 EPA, 1998		0.00E+00	1.79E-06
Endrin	3.04E-04		0.00E+00		0.00E+00	5.76E-02	1.75E-05 EPA, 1998	2.37E-03	7.20E-07 EPA, 1998		0.00E+00	7.20E-07	1.55E-03	4.71E-07 EPA, 1998		0.00E+00	4.71E-07
Endrin Ketone	8.74E-04		0.00E+00		0.00E+00	5.76E-02	5.03E-05 EPA, 1998	2.37E-03	2.07E-06 EPA, 1998		0.00E+00	2.07E-06	1.55E-03	1.35E-06 EPA, 1998		0.00E+00	1.35E-06
Fluoranthene	1.46E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Fluorene	1.12E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene	1.33E-01	8.00E-02	1.06E-02 EPA, 1999	8.00E-02	2 1.06E-02 EPA, 1999	3.90E-03	5.19E-04 EPA, 1999	1.24E-01	1.65E-02 EPA, 1999	2.98E-04	3.96E-05 EPA, 1999	1.65E-02	7.24E-02	9.63E-03 EPA, 1999	2.32E-03	3.09E-04 EPA, 1999	9.94E-03
Naphthalene	2.36E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Nickel	1.72E+01	2.00E-02	3.43E-01 EPA, 1999	2.00E-02		3.20E-02	5.49E-01 EPA, 1999	3.60E-03	6.18E-02 EPA, 1999	8.63E-06	1.48E-04 EPA, 1999	6.20E-02		0.00E+00		0.00E+00	0.00E+00
Phenanthrene	9.98E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pyrene	1.43E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Vanadium	2.05E+01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
LPAH	1.81E-01	7.00E-02	1.26E-02 EPA, 1999*	7.00E-02	2 1.26E-02 EPA, 1999*	2.02E-02	3.65E-03 EPA, 1999*	5.31E-02	9.59E-03 EPA, 1999*	1.27E-04	2.29E-05 EPA, 1999*	9.61E-03	3.11E-02	5.62E-03 EPA, 1999*	9.98E-04	4 1.80E-04 EPA, 1999 <sup>a</sup>	5.80E-03
HPAH	9.85E-01	7.00E-02	6.90E-02 EPA, 1999*	7.00E-02	2 6.90E-02 EPA, 1999*	2.02E-02	1.99E-02 EPA, 1999*	5.31E-02	5.23E-02 EPA, 1999*	1.27E-04	1.25E-04 EPA, 1999*	5.24E-02	3.11E-02	3.06E-02 EPA, 1999*	9.98E-04	4 9.83E-04 EPA, 1999 <sup>6</sup>	
TOTAL PAHs	1.17E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00

Notes:
\* For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

## TABLE D-16 RME CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg)

Cfood = Csoil x BCF (or BAF)

Cfood = Csoil = BCF BAF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Bioconcentration Factor (unitless) Bioaccumulation Factor (unitless)

Compound	RME Csoil	Soil to Earthworm	Earthworm Reference	Soil to Arthropod	Arthropod Reference	Soil to Plant	Plant/Fruit/Seed Reference	Plant to Wildlife	Plant to Deer Mouse Reference	Soil to Wildlife	Soil to Deer Mouse Reference	TOTAL DEER MOUSE	Plant to Bire	d Plant to Bird Reference	Soil to Bird	Soil to Bird Reference	e TOTAL BIRD
	(mg/kg)	BCF C	Concentration	BCF	Concentration	BAF	Concentration	BCF	Concentration	BCF	Concentration	CONCENTRATION	BCF	Concentration	BCF	Concentration	CONCENTRATION
2-Methylnaphthalene	1.98E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
4,4'-DDE	2.40E-03	1.26E+00	3.02E-03 EPA, 1999	1.26E+00	3.02E-03 EPA, 1999	9.37E-03	2.25E-05 EPA, 1999	2.72E-02	6.53E-05 EPA, 1999	6.52E-05	1.56E-07 EPA, 1999	6.54E-05	1.59E-02	3.82E-05 EPA, 1999	5.10E-0	4 1.22E-06 EPA, 1999	
4,4'-DDT	3.80E-03	1.26E+00	4.79E-03 EPA, 1999	1.26E+00	4.79E-03 EPA, 1999	9.37E-03	3.56E-05 EPA, 1999	2.72E-02	1.03E-04 EPA, 1999	6.52E-05	2.48E-07 EPA, 1999	1.04E-04	1.59E-02	6.04E-05 EPA, 1999	5.10E-0	4 1.94E-06 EPA, 1999	
Acenaphthene	3.60E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Acenaphthylene	0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Anthracene	1.07E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Aroclor-1254	1.68E-02	1.13E+00	1.90E-02 EPA, 1999	1.13E+00	1.90E-02 EPA, 1999	1.00E-02	1.68E-04 EPA, 1999	2.43E-02	4.08E-04 EPA, 1999	5.83E-05	9.79E-07 EPA, 1999	4.09E-04	1.42E-02	2.39E-04 EPA, 1999	4.55E-0	4 7.64E-06 EPA, 1999	2.46E-04
Benzo(a)anthracene	4.64E-01	3.00E-02	1.39E-02 EPA, 1999	3.00E-02	1.39E-02 EPA, 1999	2.02E-02	9.37E-03 EPA, 1999	7.19E-03	3.34E-03 EPA, 1999	1.73E-05	8.03E-06 EPA, 1999	3.34E-03	4.20E-03	1.95E-03 EPA, 1999	1.35E-0	4 6.26E-05 EPA, 1999	2.01E-03
Benzo(a)pyrene	5.54E-01	7.00E-02	3.88E-02 EPA, 1999	7.00E-02	3.88E-02 EPA, 1999	1.01E-02	5.60E-03 EPA, 1999	2.03E-02	1.12E-02 EPA, 1999	4.86E-05	2.69E-05 EPA, 1999	1.13E-02	1.19E-02	6.59E-03 EPA, 1999	3.81E-0	4 2.11E-04 EPA, 1999	6.80E-03
Benzo(b)fluoranthene	6.49E-01	7.00E-02	4.54E-02 EPA, 1999	7.00E-02	4.54E-02 EPA, 1999	1.01E-02	6.55E-03 EPA, 1999	2.40E-02	1.56E-02 EPA, 1999	5.75E-05	3.73E-05 EPA, 1999	1.56E-02	1.40E-02	9.09E-03 EPA, 1999	4.50E-0	4 2.92E-04 EPA, 1999	9.38E-03
Benzo(g,h,i)perylene	4.94E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Benzo(k)fluoranthene	3.41E-01	8.00E-02	2.73E-02 EPA, 1999	8.00E-02	2.73E-02 EPA, 1999	1.01E-02	3.44E-03 EPA, 1999	2.39E-02	8.15E-03 EPA, 1999	5.73E-05	1.95E-05 EPA, 1999	8.17E-03	1.39E-02	4.74E-03 EPA, 1999	4.48E-0	4 1.53E-04 EPA, 1999	
Boron	2.06E+01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Cadmium	5.90E-01	9.60E-01	5.66E-01 EPA, 1999	9.60E-01	5.66E-01 EPA, 1999	3.64E-01	2.15E-01 EPA, 1999	7.19E-05	4.24E-05 EPA, 1999	1.73E-07	1.02E-07 EPA, 1999	4.25E-05	4.71E-02	2.78E-02 EPA, 1999	1.51E-0	8.91E-04 EPA, 1999	2.87E-02
Chrysene	5.29E-01	4.00E-02	2.12E-02 EPA, 1999	4.00E-02	2.12E-02 EPA, 1999	1.87E-02	9.89E-03 EPA, 1999	8.27E-03	4.37E-03 EPA, 1999	1.99E-05	1.05E-05 EPA, 1999	4.39E-03	4.84E-03	2.56E-03 EPA, 1999	1.55E-0	4 8.20E-05 EPA, 1999	
Dibenz(a,h)anthracene	1.77E-01	7.00E-02	1.24E-02 EPA, 1999	7.00E-02	1.24E-02 EPA, 1999	6.40E-03	1.13E-03 EPA, 1999	5.31E-02	9.40E-03 EPA, 1999	1.27E-04	2.25E-05 EPA, 1999	9.42E-03	3.11E-02	5.50E-03 EPA, 1999	9.98E-0	4 1.77E-04 EPA, 1999	5.68E-03
Dieldrin	3.40E-03	1.47E+01	5.00E-02 EPA, 2005f	1.47E+01	5.00E-02 EPA, 2005f	3.49E-02	1.19E-04 EPA, 1998	5.65E-03	1.92E-05 EPA, 1998		0.00E+00	1.92E-05	3.68E-03	1.25E-05 EPA, 1998		0.00E+00	1.25E-05
Endrin	7.59E-04		0.00E+00		0.00E+00	5.76E-02	4.37E-05 EPA, 1998	2.37E-03	1.80E-06 EPA, 1998		0.00E+00	1.80E-06	1.55E-03	1.18E-06 EPA, 1998		0.00E+00	1.18E-06
Endrin Ketone	3.10E-03		0.00E+00		0.00E+00	5.76E-02	1.79E-04 EPA, 1998	2.37E-03	7.35E-06 EPA, 1998		0.00E+00	7.35E-06	1.55E-03	4.81E-06 EPA, 1998		0.00E+00	4.81E-06
Fluoranthene	9.23E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Fluorene	2.82E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene	5.77E-01	8.00E-02	4.62E-02 EPA, 1999	8.00E-02	4.62E-02 EPA, 1999	3.90E-03	2.25E-03 EPA, 1999	1.24E-01	7.15E-02 EPA, 1999	2.98E-04	1.72E-04 EPA, 1999	7.17E-02	7.24E-02	4.18E-02 EPA, 1999	2.32E-0	3 1.34E-03 EPA, 1999	4.31E-02
Naphthalene	1.02E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Nickel	1.88E+01	2.00E-02	3.76E-01 EPA, 1999	2.00E-02	3.76E-01 EPA, 1999	3.20E-02	6.01E-01 EPA, 1999	3.60E-03	6.76E-02 EPA, 1999	8.63E-06	1.62E-04 EPA, 1999	6.78E-02		0.00E+00		0.00E+00	0.00E+00
Phenanthrene	5.95E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pyrene	8.79E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Vanadium	2.29E+01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
LPAH	8.88E-01	7.00E-02	6.22E-02 EPA, 1999*	7.00E-02	6.22E-02 EPA, 1999*	2.02E-02	1.79E-02 EPA, 1999*	5.31E-02	4.72E-02 EPA, 1999*	1.27E-04	1.13E-04 EPA, 1999*	4.73E-02	3.11E-02	2.76E-02 EPA, 1999*	9.98E-0	4 8.86E-04 EPA, 1999*	
HPAH	5.59E+00	7.00E-02	3.91E-01 EPA, 1999*	7.00E-02	3.91E-01 EPA, 1999*	2.02E-02	1.13E-01 EPA, 1999*	5.31E-02	2.97E-01 EPA, 1999*	1.27E-04	7.10E-04 EPA, 1999*	2.97E-01	3.11E-02	1.74E-01 EPA, 1999*	9.98E-0	4 5.58E-03 EPA, 1999*	* 1.79E-01
TOTAL PAHs	6.48E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00

Notes:
\* For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

# TABLE E-1 EXPOSURE POINT CONCENTATION (mg/kg) BACKGROUND SOIL

			Statistic
Parameter	Average	95% UCL	Used
Antimony	0.953	2.19	Maximum*
Arsenic	3.438	4.477	95% Student's-t
Barium	333.1	502.3	95% Approx. Gamma
Benzo(a)anthracene	0.0116	0.0457	95% Chebyshev
Benzo(a)pyrene	0.0122	0.0431	95% Chebyshev
Benzo(b)fluoranthene	0.00941	0.0325	95% Chebyshev
Benzo(g,h,i)perylene	0.0241	0.0527	95% Chebyshev
Benzo(k)fluoranthene	0.0158	0.0595	95% Chebyshev
Cadmium	0.0311	0.11	Maximum*
Chromium	15.2	16.95	95% Student's-t
Chrysene	0.0145	0.0477	95% Chebyshev
Copper	12.12	14.41	95% Student's-t
Fluoranthene	0.0208	0.156	Maximum*
Indeno(1,2,3-cd)pyrene	0.0551	0.417	Maximum*
Lead	13.43	14.33	95% Student's-t
Lithium	21.14	24.13	95% Student's-t
Manganese	377.4	431.8	95% Student's-t
Mercury	0.0213	0.0241	95% Student's-t
Molybdenum	0.522	0.565	95% Student's-t
Phenanthrene	0.0167	0.137	Maximum*
Pyrene	0.0218	0.0728	95% Chebyshev
Zinc	247	969	Maximum*
LPAH	0.0167	0.137	
НРАН	0.18531	0.927	
TOTAL PAHs	0.20201	1.064	

#### Notes:

<sup>\*</sup> Recommended UCL exceeds maximum observation so the maximum measured concentration was used as the EPC.

## TABLE E-2 TOXICITY REFERENCE VALUES

	Earthworm			Deer Mouse			Coyote			Rat Snake			American Robin			Red-tailed Hawk		
Parameter	(mg/kg)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments
						Chronic LOAEL in mouse			Chronic LOAEL in									
0 ti	20	EDA 2005-	EC20 for	0.405	CI- 4000	with an uncertainty factor	0.405	CI- 4000	mouse with an	0.405		Maranalian TD\/	0.405		Mammalian TRV	0.405		Mammalian TRV
Antimony Arsenic	30	EPA, 2005a	earthworms	0.125	Sample, 1996	of 0.1	0.125	Sample, 1996	uncertainty factor of 0.1	0.125		Mammalian TRV	0.125		Mammalian I RV	0.125		Mammalian IRV
Arseriic			Geometric mean of															
			the EC20 values for															
			three test species															
			under three			Geometric mean of			Geometric mean of									
Rarium	330	EPA, 2005g	separate test conditions of pH	51.8	EPA, 2005g	NOAEL values for reproduction and growth	51.8	EPA, 2005g	NOAEL values for reproduction and growth	51.8		Mammalian TRV	51.8		Mammalian TRV	51.8		Mammalian TRV
Barium Benzo(a)anthracene	330	EFA, 20039	conditions of pri	31.0	EFA, 2003g	reproduction and growth	31.0	EFA, 2003g	reproduction and growin	31.0		IVIAITIITIAIIAIT T N V	31.0		Iviaiiiiialiaii I N v	31.0		Manifidali I KV
Benzo(a)pyrene		1																
Benzo(b)fluoranthene																		
Benzo(g,h,i)perylene																		
Benzo(k)fluoranthene		+		1														
						Highest bounded NOAEL			Highest bounded									
			Chronic (4-month)			for growth and			NOAEL for growth and									
			NOAEL for cocoon			reproduction lower than			reproduction lower than									
			production in			the lowest bounded			the lowest bounded						Geometric mean of			Geometric mean of
Conductions	10	EPA, 1999	earthworm (dose 10)	0.77	EDA OOOEL	LOAEL for reproduction,	0.77	EDA 000EF	LOAEL for reproduction, growth, and survival	4.45		Avian TRV	4 47	EDA 4000	NOAEL values for	4 47	EDA 4000	NOAEL values for
Cadmium	10	EPA, 1999	Maximum	0.77	EPA, 2005b	growth, and survival	0.77	EPA, 2005b	growin, and survival	1.45		Avian TRV	1.47	EPA, 1999	reproduction and growth	1.47	EPA, 1999	reproduction and growth
			acceptable toxicant															
			concentration															
			(MATC) for			Geometric mean of			Geometric mean of						Geometric mean of the			Geometric mean of the
		EDA 0005	reproductive effects		EDA 0005	NOAEL values for	0.4	EDA 0005	NOAEL values for	0.00		A to TDV	0.00	EDA 0005	NOAEL values for	0.00	EDA 0005	NOAEL values for
Chromium Chrysene	57	EPA, 2005c	in earthworm	2.4	EPA, 2005c	reproduction and growth	2.4	EPA, 2005c	reproduction and growth	2.66		Avian TRV	2.66	EPA, 2005c	reproduction and growth	2.66	EPA, 2005c	reproduction and growth
Chrysene																		
						Highest bounded NOAEL			Highest bounded						Highest bounded NOAEL			Highest bounded NOAEL
			Geometric mean of			for growth and			NOAEL for growth and						for growth and			for growth and
			the MATC and EC10	P		reproduction lower than			reproduction lower than						reproduction lower than			reproduction lower than the
			values for six test species under			the lowest bounded LOAEL for reproduction,			the lowest bounded LOAEL for reproduction,						the lowest bounded LOAEL for reproduction,			lowest bounded LOAEL for reproduction, growth, and
Copper	80	EPA. 2007c	different test species	5.6	EPA, 2007c	growth, and survival	5.6	EPA, 2007c	growth, and survival	4.05		Avian TRV	4.05	EPA, 2007c	growth, and survival	4.05	EPA, 2007c	survival
Fluoranthene						<b>3</b> • • , • • • • • • • • • • • • • • • •			<b>3</b> ,						<b>J</b> • • , • • • • • • • • • • • • • • • •			
Indeno(1,2,3-cd)pyrene																		
						Lish and houseded NOAEL			I limboot bounded						List and bounded NOAEL			Liberant have dead NOAEL
						Highest bounded NOAEL for growth and			Highest bounded NOAEL for growth and						Highest bounded NOAEL for growth and			Highest bounded NOAEL for growth and
			Geometric mean of			reproduction lower than			reproduction lower than						reproduction lower than			reproduction lower than the
			MATC values for			the lowest bounded			the lowest bounded						the lowest bounded			lowest bounded LOAEL for
			one test species			LOAEL for reproduction,			LOAEL for reproduction,						LOAEL for reproduction,			reproduction, growth, and
Lead Lithium	1700	EPA, 2005e	under different pH	4.7	EPA, 2005e	growth, and survival	4.7	EPA, 2005e	growth, and survival	1.63		Avian TRV	1.63	EPA, 2005e	growth, and survival	1.63	EPA, 2005e	survival
Manganese																		
Manganoo																		
			Toxicity value not			Chronic (6-months)			Chronic (6-months)						Acute (5 days) LOAEL for			Acute (5 days) LOAEL for
			available TRV for			NOAEL for reproduction			NOAEL for reproduction						mortality in coturnix quail			mortality in coturnix quail
			methyl mercury was			in mink (dose 1.01 with			in mink (dose 1.01 with			4			(dose 325 with uncertainty			(dose 325 with uncertainty
Mercury Molybdenum	2.5	EPA, 1999	used as a surrogate	1.01	EPA, 1999	uncertainty factor of 1)	1.01	EPA, 1999	uncertainty factor of 1)	3.25		Avian TRV	3.25	EPA, 1999	factor of 0.01)	3.25	EPA, 1999	factor of 0.01)
Phenanthrene																		
Pyrene																		
			Geometric mean of															
			the MATC and EC10 values for three test			Geometric mean of			Geometric mean of						Geometric mean of NOAEL values within the			Geometric mean of NOAEL values within the
			species under	`[		NOAEL values for			NOAEL values for						reproductive and growth			reproductive and growth
Zinc	120	EPA, 2007e	different test species	75.4	EPA, 2007e	reproduction and growth	75.4	EPA, 2007e	reproduction and growth	66.1		Avian TRV	66.1	EPA, 2007e	effect groups	66.1	EPA, 2007e	effect groups
						, i									,			j '
						Highest bounded NOAEL			Highest bounded									
				1		for growth and reproduction lower than			NOAEL for growth and reproduction lower than									
				1		the lowest bounded			the lowest bounded									
				1		LOAEL for reproduction,			LOAEL for reproduction,									
LPAH	29	EPA, 2007b		65.6	EPA, 2007b		65.6	EPA, 2007b	growth, and survival	65.6		Mammalian TRV	65.6		Mammalian TRV	65.6		Mammalian TRV
						-				- 1								

### TOXICITY REFERENCE VALUES

Parameter	Earthworm (mg/kg)	Ref.	Comments	Deer Mouse (mg/kgBW-day)	Ref.	Comments	Coyote (mg/kgBW-day)	Ref.	Comments	Rat Snake (mg/kgBW-day)	Ref.		American Robin (mg/kgBW-day)	Comments	Red-tailed Hawk (mg/kgBW-day)	Ref.	Comments
НРАН	18	EPA, 2007b		0.615		Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival			Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival			Mammalian TRV	0.615	Mammalian TRV	0.615		Mammalian TRV
TOTAL PAHs																	

### Notes:

EPA, 2007a -- DDT
EPA, 2007b -- PAHs
EPA, 2007c -- Copper
EPA, 2007d -- Nickel
EPA, 2007f -- Selenium
EPA, 2005a -- Antimony
EPA, 2005b -- Cadmium
EPA, 2005c -- Chromium
EPA, 2005c -- Chromium
EPA, 2005c -- Lead
EPA, 2005f -- Dieldrin
EPA, 2005g -- Barium

### TABLE E-3 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR BACKGROUND SOIL **EARTHWORM**

Ecological Hazard Quotient = Sc/TRV

Definition
Soil Concentration (mg/kg)
Toxicity Reference Value (mg/kg) Default

Parameter Sc TRV see below

Chemical	Average Sc	RME Sc	TRV (earthworm)	Average EHQ	RME EHQ	
			(1111)			
Antimony	9.53E-01	2.19E+00	3.00E+01	3.18E-02	7.30E-02	
Arsenic	3.44E+00	4.48E+00				
Barium	3.33E+02	5.02E+02	3.30E+02	1.01E+00	1.52E+00	
Benzo(a)anthracene	1.16E-02	4.57E-02				
Benzo(a)pyrene	1.22E-02	4.31E-02				
Benzo(b)fluoranthene	9.41E-03	3.25E-02				
Benzo(g,h,i)perylene	2.41E-02	5.27E-02				
Benzo(k)fluoranthene	1.58E-02	5.95E-02				
Cadmium	3.11E-02	1.10E-01	1.00E+01	3.11E-03	1.10E-02	
Chromium	1.52E+01	1.70E+01	5.70E+01	2.67E-01	2.97E-01	
Chrysene	1.45E-02	4.77E-02				
Copper	1.21E+01	1.44E+01	8.00E+01	1.52E-01	1.80E-01	
Fluoranthene	2.08E-02	1.56E-01				
Indeno(1,2,3-cd)pyrene	5.51E-02	4.17E-01				
Lead	1.34E+01	1.43E+01	1.70E+03	7.90E-03	8.43E-03	
Lithium	2.11E+01	2.41E+01				
Manganese	3.77E+02	4.32E+02				
Mercury	2.13E-02	2.41E-02	2.50E+00	8.52E-03	9.64E-03	
Molybdenum	5.22E-01	5.65E-01				
Phenanthrene	1.67E-02	1.37E-01				
Pyrene	2.18E-02	7.28E-02				
Zinc	2.47E+02	9.69E+02	1.20E+02	2.06E+00	8.08E+00	
LPAH	1.67E-02	1.37E-01	2.90E+01	5.76E-04	4.72E-03	
HPAH	1.85E-01	9.27E-01	1.80E+01	1.03E-02	5.15E-02	
TOTAL PAHs	2.02E-01	1.06E+00				
TOTAL PAHs	2.02E-01	1.06E+00				

# TABLE E-4 INTAKE CALCULATIONS FOR BACKGROUND SOIL DEER MOUSE

SOIL INGESTION				
INTAKE = (Sc * IR * A	F * AUF) / (BW)			
Parameter	Definition		Value	Reference
Intake	Intake of chemical (mg/kg-day)		calculated	reference
Sc	Soil concentration (mg/kg)		see data page	
IR	Ingestion rate of soil (kg/day)		2.13E-05	EPA, 1999 (normalized for bw)
AF	Chemical Bioavailability in soil (unitle	299)	1	EPA, 1997
AUF	Area Use Factor	555)	1	EPA, 1997
BW	Body weight (kg)		1.48E-02	EPA, 1999
D**	Body weight (kg)		1.402 02	217, 1000
	Average	RME	Average	RME
Chemical	Sc	Sc	Intake	Intake
Antimony	9.53E-01	2.19E+00	1.37E-03	3.15E-03
Arsenic	3.44E+00	4.48E+00	4.95E-03	6.44E-03
Barium	3.33E+02	5.02E+02	4.79E-01	7.23E-01
Benzo(a)anthracene	1.16E-02	4.57E-02	1.67E-05	6.58E-05
Benzo(a)pyrene	1.22E-02	4.31E-02	1.76E-05	6.20E-05
Benzo(b)fluoranthene	9.41E-03	3.25E-02	1.35E-05	4.68E-05
Benzo(g,h,i)perylene	2.41E-02	5.27E-02	3.47E-05	7.58E-05
Benzo(k)fluoranthene	1.58E-02	5.95E-02	2.27E-05	8.56E-05
Cadmium	3.11E-02	1.10E-01	4.48E-05	1.58E-04
Chromium	1.52E+01	1.70E+01	2.19E-02	2.44E-02
Chrysene	1.45E-02	4.77E-02	2.09E-05	6.86E-05
Copper	1.21E+01	1.44E+01	1.74E-02	2.07E-02
Fluoranthene	2.08E-02	1.56E-01	2.99E-05	2.25E-04
Indeno(1,2,3-cd)pyren		4.17E-01	7.93E-05	6.00E-04
Lead	1.34E+01	1.43E+01	1.93E-02	2.06E-02
Lithium	2.11E+01	2.41E+01	3.04E-02	3.47E-02
	3.77E+02	4.32E+02	5.43E-01	6.21E-01
Manganese				
Mercury	2.13E-02	2.41E-02	3.07E-05	3.47E-05
Molybdenum	5.22E-01	5.65E-01	7.51E-04	8.13E-04
Phenanthrene	1.67E-02	1.37E-01	2.40E-05	1.97E-04
Pyrene	2.18E-02	7.28E-02	3.14E-05	1.05E-04
Zinc	2.47E+02	9.69E+02	3.55E-01	1.39E+00
LPAH	1.67E-02	1.37E-01	2.40E-05	1.97E-04
HPAH	1.85E-01	9.27E-01	2.67E-04	1.33E-03
TOTAL PAHs	2.02E-01	1.06E+00	2.91E-04	1.53E-03
FOOD INGESTION				
INTAKE = ((Ca * IR * I	DFa * AUF) / (BW) + ((Cp * IR * DFs	*AUF)/(BW))		
Parameter	Definition		Value	Reference
Intake	Intake of chemical (mg/kg-day)		calculated	
Ca	Arthropod concentration (mg/kg)		see FoodConc page	е
Ср	Plant concentration (mg/kg)		see FoodConc page	
IR	Ingestion rate of of food (kg/day)		8.87E-03	EPA, 1999 (normalized for bw)
Dfa	Dietary fraction of arthropods (unitle:	ss)	5.60E-01	EPA, 1993
Dfs	Dietary fraction of plants, seeds and	,	4.40E-01	EPA, 1993
AUF	Area Use Factor		1	EPA, 1997
BW	Body weight (kg)		1.48E-02	EPA, 1999
	Average RME	Average RME	Average	RME
Chemical	Arthropod Arthropod	Plant Plant	Intake	Intake
Antimony	2.10E-01 4.82E-01	1.91E-01 4.38E-01	1.21E-01	2.77E-01
Arsenic	3.78E-01 4.92E-01	1.24E-01	1.60E-01	2.08E-01
Barium	7.33E+01 1.11E+02	5.00E+01 7.53E+01	3.78E+01	5.70E+01
Benzo(a)anthracene	3.48E-04 1.37E-03	2.34E-04 9.23E-04		
Benzo(a)anthracene Benzo(a)pyrene	8.54E-04 1.37E-03 8.54E-04 3.02E-03	1.23E-04	1.79E-04 3.19E-04	7.04E-04 1.13E-03
Perizo(a)pyrene	0.04E-04 3.02E-03	1.23L-04 4.33E-04	3.19E-04	1.13E=U3

# TABLE E-4 INTAKE CALCULATIONS FOR BACKGROUND SOIL DEER MOUSE

Benzo(b)fluoranthene	6.59E-04	2.28E-03	9.50E-05	3.28E-04	2.46E-04	8.50E-04	
Benzo(g,h,i)perylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Benzo(k)fluoranthene	1.26E-03	4.76E-03	1.60E-04	6.01E-04	4.66E-04	1.76E-03	
Cadmium	2.99E-02	1.06E-01	1.13E-02	4.00E-02	1.30E-02	4.60E-02	
Chromium	1.52E-01	1.70E-01	1.14E-01	1.27E-01	8.11E-02	9.04E-02	
Chrysene	5.80E-04	1.91E-03	2.71E-04	8.92E-04	2.66E-04	8.76E-04	
Copper	4.85E-01	5.76E-01	4.85E+00	5.76E+00	1.44E+00	1.71E+00	
Fluoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Indeno(1,2,3-cd)pyrene	4.41E-03	3.34E-02	2.15E-04	1.63E-03	1.54E-03	1.16E-02	
Lead	4.03E-01	4.30E-01	6.04E-01	6.45E-01	2.95E-01	3.14E-01	
Lithium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Manganese	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Mercury	8.52E-04	9.64E-04	7.99E-04	9.04E-04	4.97E-04	5.62E-04	
Molybdenum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Phenanthrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Pyrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Zinc	1.38E+02	5.43E+02	2.96E-10	1.16E-09	4.64E+01	1.82E+02	
LPAH	1.17E-03	9.59E-03	3.37E-04	2.77E-03	4.81E-04	3.95E-03	
HPAH	1.30E-02	6.49E-02	3.74E-03	1.87E-02	5.34E-03	2.67E-02	
TOTAL PAHs	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

TOTAL INTAKE

INTAKE = Soil Intake + Food Intake

	TOTAL	TOTAL
	Average	RME
Chemical	Intake	Intake
Antimony	1.22E-01	2.80E-01
Arsenic	1.65E-01	2.14E-01
Barium	3.83E+01	5.77E+01
Benzo(a)anthracene	1.95E-04	7.69E-04
Benzo(a)pyrene	3.37E-04	1.19E-03
Benzo(b)fluoranthene	2.60E-04	8.97E-04
Benzo(g,h,i)perylene	3.47E-05	7.58E-05
Benzo(k)fluoranthene	4.89E-04	1.84E-03
Cadmium	1.31E-02	4.62E-02
Chromium	1.03E-01	1.15E-01
Chrysene	2.87E-04	9.44E-04
Copper	1.46E+00	1.73E+00
Fluoranthene	2.99E-05	2.25E-04
Indeno(1,2,3-cd)pyrene	1.62E-03	1.22E-02
Lead	3.14E-01	3.35E-01
Lithium	3.04E-02	3.47E-02
Manganese	5.43E-01	6.21E-01
Mercury	5.27E-04	5.97E-04
Molybdenum	7.51E-04	8.13E-04
Phenanthrene	2.40E-05	1.97E-04
Pyrene	3.14E-05	1.05E-04
Zinc	4.68E+01	1.84E+02
LPAH	5.05E-04	4.15E-03
НРАН	5.61E-03	2.81E-02
TOTAL PAHs	6.11E-03	3.22E-02

## TABLE E-5 INTAKE CALCULATIONS FOR BACKGROUND SOIL COYOTE

			CO	YOTE					
FOOD INGESTION									
INTAKE = ((Cm * IR * Df	m * AUF)/(BW) + (Cb * IR *	DFb * AUF)	) / (BW))						
Parameter	Definition				Value	Reference			
Intake	Intake of chemical (mg/kg	j-day)			calculated				
Cm	Mammal concentration (n	ng/kg)			see FoodConc page				
Cb	Bird concentration (mg/kg	<b>J</b> )			see FoodConc page				
IR	Ingestion rate of of food (	kg/day)			1.55E+00 EPA, 1993 (normalized for bw)				
Dfm	Dietary fraction of small n	nammals (un	nitless)		7.50E-01 EPA, 1993				
Dfb	Dietary fraction of birds (u	ınitless)			2.50E-01	EPA, 1993			
AUF	Area Use Factor				1	EPA, 1997			
BW	Body weight (kg)				1.55E+01	EPA, 1993			
	A	DME	۸	DME	A	DME			
Chamical	Average	RME	Average	RME	Average	RME			
Chemical	Mammal	Mammal	Bird	Bird	Intake	Intake			
Antimony	5.72E-04	1.31E-03	0.00E+00	0.00E+00	4.29E-05	9.86E-05			
Arsenic	4.14E-03	5.39E-03	0.00E+00	0.00E+00	3.10E-04	4.04E-04			
Barium	3.00E-02	4.53E-02	0.00E+00	0.00E+00	2.25E-03	3.39E-03			
Benzo(a)anthracene	8.36E-05	3.29E-04	5.03E-05	1.98E-04	7.53E-06	2.97E-05			
Benzo(a)pyrene	2.48E-04	8.77E-04	1.50E-04	5.29E-04	2.24E-05	7.90E-05			
Benzo(b)fluoranthene	2.26E-04	7.82E-04	1.36E-04	4.70E-04	2.04E-05	7.04E-05			
Benzo(g,h,i)perylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Benzo(k)fluoranthene	3.79E-04	1.43E-03	2.27E-04	8.54E-04	3.41E-05	1.28E-04			
Cadmium	2.24E-06	7.93E-06	1.51E-03	5.35E-03	3.80E-05	1.34E-04			
Chromium	5.03E-02	5.61E-02	0.00E+00	0.00E+00	3.77E-03	4.21E-03			
Chrysene	1.20E-04	3.95E-04	7.24E-05	2.38E-04	1.08E-05	3.56E-05			
Copper	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Fluoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Indeno(1,2,3-cd)pyrene	6.85E-03	5.18E-02	4.12E-03	3.12E-02	6.17E-04	4.67E-03			
Lead	2.42E-03	2.59E-03	0.00E+00	0.00E+00	1.82E-04	1.94E-04			
Lithium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Manganese	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00			
Mercury	6.68E-05	7.56E-05	2.33E-04	2.64E-04	1.08E-05	1.23E-05			
Molybdenum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Phenanthrene	0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00 0.00E+00			
Pyrene	0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00 0.00E+00			
Zinc	1.33E-02	5.24E-02	9.92E-01	3.89E+00	2.58E-02	1.01E-01			
LPAH									
	8.89E-04	7.29E-03	5.36E-04	4.40E-03	8.01E-05	6.57E-04			
HPAH	9.86E-03	4.93E-02	5.95E-03	2.98E-02	8.88E-04	4.44E-03			
TOTAL PAHs	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			

### TABLE E-6 INTAKE CALCULATIONS FOR BACKGROUND SOIL RAT SNAKE

SOIL INGESTION								
INTAKE = (Sc * IR * AF * A	AUF) / (BW)							
Parameter		Definition					Value	Reference
Intake		ntake of chen	nical (mg/kg	j-day)			calculated	
Sc		Soil concentra					see data page	
IR		ngestion rate	, 0	,,	,		1.45E-04	EPA, 1993 *
AF		Chemical Bio		n soil (unitle:	ss)		1 1	EPA, 1997
AUF BW		Area Use Fac Body weight (					1.39E-01	EPA, 1997 EPA, 1993
DVV	-	ody weight (	kg)				1.592-01	LI A, 1993
Chemical				Average Sc		RME Sc	Average Intake	RME Intake
Antimony				9.53E-01		2.19E+00	9.91E-04	2.28E-03
Arsenic				3.44E+00		4.48E+00	3.58E-03	4.66E-03
Barium				3.33E+02		5.02E+02	3.46E-01	5.22E-01
Benzo(a)anthracene				1.16E-02		4.57E-02	1.21E-05	4.75E-05
Benzo(a)pyrene				1.22E-02		4.31E-02	1.27E-05	4.48E-05
Benzo(b)fluoranthene				9.41E-03		3.25E-02	9.79E-06	3.38E-05
Benzo(g,h,i)perylene				2.41E-02 1.58E-02		5.27E-02	2.51E-05	5.48E-05 6.19E-05
Benzo(k)fluoranthene Cadmium				1.58E-02 3.11E-02		5.95E-02 1.10E-01	1.64E-05 3.23E-05	6.19E-05 1.14E-04
Chromium				1.52E+01		1.70E+01	1.58E-02	1.76E-02
Chrysene				1.45E-02		4.77E-02	1.51E-05	4.96E-05
Copper				1.21E+01		1.44E+01	1.26E-02	1.50E-02
Fluoranthene				2.08E-02		1.56E-01	2.16E-05	1.62E-04
Indeno(1,2,3-cd)pyrene				5.51E-02		4.17E-01	5.73E-05	4.34E-04
Lead				1.34E+01		1.43E+01	1.40E-02	1.49E-02
Lithium				2.11E+01		2.41E+01	2.20E-02	2.51E-02
Manganese				3.77E+02		4.32E+02	3.92E-01	4.49E-01
Mercury				2.13E-02		2.41E-02	2.22E-05	2.51E-05
Molybdenum				5.22E-01		5.65E-01	5.43E-04	5.88E-04
Phenanthrene				1.67E-02		1.37E-01	1.74E-05	1.42E-04
Pyrene				2.18E-02		7.28E-02	2.27E-05	7.57E-05
Zinc				2.47E+02		9.69E+02	2.57E-01	1.01E+00
LPAH HPAH				1.67E-02 1.85E-01		1.37E-01 9.27E-01	1.74E-05 1.93E-04	1.42E-04 9.64E-04
TOTAL PAHs				2.02E-01		1.06E+00	2.10E-04	1.11E-03
FOOD INGESTION								
	* ALIE\//D\M\\ . /	Co * IP * DE	a * ALIE) / /E	2\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	* IP * DEm */	\   E\//B\\/\\		
INTAKE = ((Cb * IR * Dfb	AUF)/(DVV) + (	Ca IK Dra	a AUF)/(E	5W) + ((CIII	IK DEIII F	AUF)/(DVV))		
Parameter		Definition					Value	Reference
Intake		ntake of chen					calculated	_
Cb Ca		Bird concentra		.,			see FoodConc page	
Cm		Arthropod cor Mammal cond	,	0 0,			see FoodConc page see FoodConc page	
IR		ngestion rate	,	0 0,			2.78E-03	EPA, 1993 (normalized for bw)
Dfb		Dietary fraction					1.80E-01	EPA, 1993
Dfa		Dietary fraction			s)		2.00E-01	EPA, 1993
Dfm		Dietary fraction					6.20E-01	EPA, 1993
AUF	Д	Area Úse Fac	tor				1	EPA, 1997
BW	Е	Body weight (	kg)				1.39E-01	EPA, 1993
Chemical	Average Bird	RME Bird	Average	RME Arthropod	Average Mammal	RME Mammal	Average Intake	RME Intake
Orientical	Dilu	Dilu	Arthropod	липороц	wanillal	Mamillal	mare	IIIIanc
Antimony	0.00E+00	0.00E+00	2.10E-01	4.82E-01	5.72E-04	1.31E-03	8.46E-04	1.94E-03
Arsenic	0.00E+00	0.00E+00	3.78E-01	4.92E-01	4.14E-03	5.39E-03	1.56E-03	2.04E-03
Barium	0.00E+00	0.00E+00		1.11E+02	3.00E-02	4.53E-02	2.94E-01	4.43E-01
Benzo(a)anthracene	5.03E-05		3.48E-04	1.37E-03	8.36E-05	3.29E-04	2.61E-06	1.03E-05
Benzo(a)pyrene	1.50E-04		8.54E-04	3.02E-03	2.48E-04	8.77E-04	7.03E-06	2.48E-05
Benzo(b)fluoranthene	1.36E-04		6.59E-04	2.28E-03	2.26E-04	7.82E-04	5.93E-06	2.05E-05
Benzo(g,h,i)perylene	0.00E+00	0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00 1.06E-05	0.00E+00 3.08E-05
Benzo(k)fluoranthene	2.27E-04		1.26E-03	4.76E-03	3.79E-04	1.43E-03	1.06E-05	3.98E-05
Cadmium Chromium	1.51E-03 0.00E+00	5.35E-03 0.00E+00	2.99E-02 1.52E-01	1.06E-01 1.70E-01	2.24E-06 5.03E-02	7.93E-06 5.61E-02	1.25E-04 1.23E-03	4.42E-04 1.37E-03
Chrysene	7.24E-05	2.38E-04		1.70E-01 1.91E-03	1.20E-04	3.95E-04	4.07E-06	1.34E-05
Copper	0.00E+00	0.00E+00		5.76E-01	0.00E+00	0.00E+00	1.94E-03	2.31E-03
II Isla	2.232.00					2.232.00		

## TABLE E-6 INTAKE CALCULATIONS FOR BACKGROUND SOIL RAT SNAKE

Fluoranthene	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Indeno(1,2,3-cd)pyrene	4.12E-03	3.12E-02 4.41E-03	3.34E-02	6.85E-03	5.18E-02	1.17E-04	8.88E-04	
Lead	0.00E+00	0.00E+00 4.03E-01	4.30E-01	2.42E-03	2.59E-03	1.64E-03	1.75E-03	
Lithium	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Manganese	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Mercury	2.33E-04	2.64E-04 8.52E-04	9.64E-04	6.68E-05	7.56E-05	5.08E-06	5.74E-06	
Molybdenum	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Phenanthrene	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Pyrene	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Zinc	9.92E-01	3.89E+00 1.38E+02	5.43E+02	1.33E-02	5.24E-02	5.57E-01	2.19E+00	
LPAH	5.36E-04	4.40E-03 1.17E-03	9.59E-03	8.89E-04	7.29E-03	1.76E-05	1.45E-04	
HPAH	5.95E-03	2.98E-02 1.30E-02	6.49E-02	9.86E-03	4.93E-02	1.96E-04	9.79E-04	
TOTAL PAHs	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

TOTAL INTAKE

INTAKE = Soil Intake + Food Intake

	TOTAL	TOTAL	
	Average	RME	
Chemical	Intake	Intake	
Antimony	1.84E-03	4.22E-03	
Arsenic	5.14E-03	6.69E-03	
Barium	6.40E-01	9.65E-01	
Benzo(a)anthracene	1.47E-05	5.78E-05	
Benzo(a)pyrene	1.97E-05	6.97E-05	
Benzo(b)fluoranthene	1.57E-05	5.43E-05	
Benzo(g,h,i)perylene	2.51E-05	5.48E-05	
Benzo(k)fluoranthene	2.70E-05	1.02E-04	
Cadmium	1.57E-04	5.56E-04	
Chromium	1.70E-02	1.90E-02	
Chrysene	1.92E-05	6.30E-05	
Copper	1.45E-02	1.73E-02	
Fluoranthene	2.16E-05	1.62E-04	
Indeno(1,2,3-cd)pyrene	1.75E-04	1.32E-03	
Lead	1.56E-02	1.67E-02	
Lithium	2.20E-02	2.51E-02	
Manganese	3.92E-01	4.49E-01	
Mercury	2.72E-05	3.08E-05	
Molybdenum	5.43E-04	5.88E-04	
Phenanthrene	1.74E-05	1.42E-04	
Pyrene	2.27E-05	7.57E-05	
Zinc	8.14E-01	3.19E+00	
LPAH	3.50E-05	2.87E-04	
HPAH	3.88E-04	1.94E-03	
TOTAL PAHs	4.23E-04	2.23E-03	

Notes:
\* Soil ingestion was assumed to be 5.2% of dietary intake per other reptiles listed in EPA, 1993.

### TABLE E-7 INTAKE CALCULATIONS FOR BACKGROUND SOIL AMERICAN ROBIN

SOIL INGESTION									
INTAKE = (Sc * IR * AF *	AUF) / (BW)								
Parameter	1	Definition						Value	Reference
Intake		Intake of chen	nical (mg/kg	j-day)			С	alculated	
Sc	;	Soil concentra	ation (mg/kg	)				data page	
IR		Ingestion rate					1	I.14E-03	EPA, 1999 (normalized for bw)
AF		Chemical Bio		n soil (unitle	ss)			1	EPA, 1997
AUF		Area Use Fac					,	1	EPA, 1997
BW		Body weight (	kg)				8	3.00E-02	EPA, 1999
Chemical				Average Sc		RME Sc	,	Average Intake	RME Intake
Antimony				9.53E-01		2.19E+00	1	1.36E-02	3.12E-02
Arsenic				3.44E+00		4.48E+00		1.90E-02	6.38E-02
Barium				3.33E+02		5.02E+02		.75E+00	7.16E+00
Benzo(a)anthracene				1.16E-02		4.57E-02	1	1.65E-04	6.51E-04
Benzo(a)pyrene				1.22E-02		4.31E-02	1	I.74E-04	6.14E-04
Benzo(b)fluoranthene				9.41E-03		3.25E-02	1	1.34E-04	4.63E-04
Benzo(g,h,i)perylene				2.41E-02		5.27E-02		3.43E-04	7.51E-04
Benzo(k)fluoranthene				1.58E-02		5.95E-02		2.25E-04	8.48E-04
Cadmium				3.11E-02		1.10E-01		1.43E-04	1.57E-03
Chromium				1.52E+01		1.70E+01		2.17E-01	2.42E-01
Chrysene				1.45E-02		4.77E-02		2.07E-04	6.80E-04
Copper				1.21E+01		1.44E+01		1.73E-01	2.05E-01
Fluoranthene				2.08E-02		1.56E-01		2.96E-04	2.22E-03
Indeno(1,2,3-cd)pyrene				5.51E-02		4.17E-01 1.43E+01		7.85E-04	5.94E-03
Lead Lithium				1.34E+01				I.91E-01	2.04E-01
				2.11E+01 3.77E+02		2.41E+01 4.32E+02		3.01E-01 5.38E+00	3.44E-01 6.15E+00
Manganese Mercury				2.13E-02		4.32E+02 2.41E-02		3.04E-04	3.43E-04
Molybdenum				5.22E-01		5.65E-01		7.44E-03	8.05E-03
Phenanthrene				1.67E-02		1.37E-01		2.38E-04	1.95E-03
Pyrene				2.18E-02		7.28E-02		3.11E-04	1.04E-03
Zinc				2.47E+02		9.69E+02		3.52E+00	1.38E+01
LPAH				1.67E-02		1.37E-01		2.38E-04	1.95E-03
HPAH				1.85E-01		9.27E-01		2.64E-03	1.32E-02
TOTAL PAHs				2.02E-01		1.06E+00		2.88E-03	1.52E-02
FOOD INGESTION									
INTAKE = ((Ce * IR * Dfe	* AUF)/(BW) +	(Ca * IR * DFa	a * AUF) / (E	3W) + ((Cp *	IR * DFs *Al	JF)/(BW))			
Parameter		Definition						Value	Reference
Intake		Intake of chen	nical (ma/ka	ı-dav)				alculated	Reference
Ce		Earthworm co						oodConc pag	ie.
Ca		Arthropod cor						odConc pag	
Ср		Plant concent	,	0 0,				odConc pag	
IR		Ingestion rate	, .	•				3.52E-02	EPA, 1999 (normalized for bw)
Dfe		Dietary fraction	n of earthw	orms (unitles	ss)		4	1.60E-01	EPA, 1993
Dfa	I	Dietary fraction	n of arthrop	ods (unitless	s)		4	1.60E-01	EPA, 1993
Dfs	I	Dietary fraction	n of plants,	seeds and o	ther vegetation	on (unitless)	8	3.00E-02	EPA, 1993
AUF		Area Use Fac	tor					1	EPA, 1997
BW	l	Body weight (	kg)				8	3.00E-02	EPA, 1999
Chemical	Average Earthworm	RME Earthworm	Average Arthropod	RME Arthropod	Average Plant	RME Plant	1	Average Intake	RME Intake
Author	0.10= -				1015 -:	4.005		105.00	0.405.04
Antimony	2.10E-01		2.10E-01	4.82E-01	1.91E-01	4.38E-01		9.16E-02	2.10E-01
Arsenic	3.78E-01	4.92E-01		4.92E-01	1.24E-01	1.61E-01		1.57E-01	2.05E-01
Barium	7.33E+01	1.11E+02		1.11E+02	5.00E+01	7.53E+01		3.14E+01	4.74E+01
Benzo(a)anthracene	3.48E-04		3.48E-04	1.37E-03	2.34E-04	9.23E-04		1.49E-04	5.87E-04
Benzo(a)pyrene	8.54E-04		8.54E-04	3.02E-03	1.23E-04	4.35E-04		3.50E-04	1.24E-03
Benzo(b)fluoranthene Benzo(g,h,i)perylene	6.59E-04 0.00E+00	0.00E+00	6.59E-04	2.28E-03 0.00E+00	9.50E-05 0.00E+00	3.28E-04 0.00E+00		2.70E-04 0.00E+00	9.32E-04 0.00E+00
Benzo(g,n,i)perylene Benzo(k)fluoranthene	1.26E-03		1.26E-03	4.76E-03	1.60E-04	6.01E-04		5.17E-04	1.95E-03
Cadmium	2.99E-02		2.99E-02	4.76E-03 1.06E-01	1.00E-04 1.13E-02	4.00E-02		1.25E-02	4.42E-02
Chromium	1.52E-01	1.70E-01		1.70E-01	1.13E-02 1.14E-01	4.00E-02 1.27E-01		6.55E-02	7.31E-02
Chrysene	5.80E-04	1.70E-01 1.91E-03		1.70E-01 1.91E-03	2.71E-04	8.92E-04		2.44E-04	8.04E-04
Copper	4.85E-01		4.85E-01	5.76E-01	4.85E+00	5.76E+00		3.67E-01	4.36E-01
n rr-			0.				`		<del></del> -

### TABLE E-7 INTAKE CALCULATIONS FOR BACKGROUND SOIL AMERICAN ROBIN

Fluoranthene	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Indeno(1,2,3-cd)pyrene	4.41E-03	3.34E-02 4.41E-03	3.34E-02	2.15E-04	1.63E-03	1.79E-03	1.36E-02	
Lead	4.03E-01	4.30E-01 4.03E-01	4.30E-01	6.04E-01	6.45E-01	1.84E-01	1.97E-01	
Lithium	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Manganese	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Mercury	8.52E-04	9.64E-04 8.52E-04	9.64E-04	7.99E-04	9.04E-04	3.73E-04	4.22E-04	
Molybdenum	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Phenanthrene	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Pyrene	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Zinc	1.38E+02	5.43E+02 1.38E+02	5.43E+02	2.96E-10	1.16E-09	5.60E+01	2.20E+02	
LPAH	1.17E-03	9.59E-03 1.17E-03	9.59E-03	3.37E-04	2.77E-03	4.85E-04	3.98E-03	
HPAH	1.30E-02	6.49E-02 1.30E-02	6.49E-02	3.74E-03	1.87E-02	5.38E-03	2.69E-02	
TOTAL PAHs	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

TOTAL INTAKE

INTAKE = Soil Intake + Food Intake

	TOTAL	TOTAL	
	Average	RME	
Chemical	Intake	Intake	
Antimony	1.05E-01	2.42E-01	
Arsenic	2.06E-01	2.69E-01	
Barium	3.62E+01	5.45E+01	
Benzo(a)anthracene	3.14E-04	1.24E-03	
Benzo(a)pyrene	5.24E-04	1.85E-03	
Benzo(b)fluoranthene	4.04E-04	1.40E-03	
Benzo(g,h,i)perylene	3.43E-04	7.51E-04	
Benzo(k)fluoranthene	7.42E-04	2.80E-03	
Cadmium	1.29E-02	4.57E-02	
Chromium	2.82E-01	3.15E-01	
Chrysene	4.51E-04	1.48E-03	
Copper	5.40E-01	6.42E-01	
Fluoranthene	2.96E-04	2.22E-03	
Indeno(1,2,3-cd)pyrene	2.58E-03	1.95E-02	
Lead	3.76E-01	4.01E-01	
Lithium	3.01E-01	3.44E-01	
Manganese	5.38E+00	6.15E+00	
Mercury	6.77E-04	7.65E-04	
Molybdenum	7.44E-03	8.05E-03	
Phenanthrene	2.38E-04	1.95E-03	
Pyrene	3.11E-04	1.04E-03	
Zinc	5.95E+01	2.33E+02	
LPAH	7.23E-04	5.93E-03	
HPAH	8.02E-03	4.01E-02	
TOTAL PAHs	8.75E-03	4.61E-02	

## TABLE E-8 INTAKE CALCULATIONS FOR BACKGROUND SOIL RED-TAILED HAWK

			RED-TAI	ILED HAWK		
FOOD INGESTION						
INTAKE = ((Cm * IR * Df	m * AUF)/(BW) + (Cb * IR *	DFb * AUF	) / (BW))			
Parameter	Definition				Value	Reference
Intake	Intake of chemical (mg/kg	g-day)			calculated	
Cm	Mammal concentration (n	ng/kg)			see FoodConc page	
Cb	Bird concentration (mg/kg	3)			see FoodConc page	
IR	Ingestion rate of of food (	kg/day)			1.78E-01	EPA, 1999 (normalized for bw)
Dfm	Dietary fraction of small n	nammals (ur	nitless)		7.85E-01	EPA, 1993
Dfb	Dietary fraction of birds (u	unitless)			2.15E-01	EPA, 1993
AUF	Area Use Factor				1	EPA, 1997
BW	Body weight (kg)				9.60E-01	EPA, 1999
		DME		5145		DUE
Oh I	Average	RME	Average	RME	Average	RME
Chemical	Mammal	Mammal	Bird	Bird	Intake	Intake
Antimony	5.72E-04	1.31E-03	0.00E+00	0.00E+00	8.31E-05	1.91E-04
Arsenic	4.14E-03	5.39E-03	0.00E+00	0.00E+00	6.01E-04	7.82E-04
Barium	3.00E-02	4.53E-02		0.00E+00	4.36E-03	6.57E-03
Benzo(a)anthracene	8.36E-05	3.29E-04	5.03E-05	1.98E-04	1.41E-05	5.57E-05
Benzo(a)pyrene	2.48E-04	8.77E-04	1.50E-04	5.29E-04	4.20E-05	1.48E-04
Benzo(b)fluoranthene	2.26E-04	7.82E-04	1.36E-04	4.70E-04	3.83E-05	1.32E-04
Benzo(g,h,i)perylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(k)fluoranthene	3.79E-04	1.43E-03	2.27E-04	8.54E-04	6.40E-05	2.41E-04
Cadmium	2.24E-06	7.93E-06	1.51E-03	5.35E-03	6.05E-05	2.14E-04
Chromium	5.03E-02	5.61E-02		0.00E+00	7.30E-03	8.14E-03
Chrysene	1.20E-04	3.95E-04	7.24E-05	2.38E-04	2.03E-05	6.69E-05
Copper	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fluoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene	6.85E-03	5.18E-02	4.12E-03	3.12E-02	1.16E-03	8.77E-03
Lead	2.42E-03	2.59E-03	0.00E+00	0.00E+00	3.52E-04	3.75E-04
Lithium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Manganese	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mercury	6.68E-05	7.56E-05	2.33E-04	2.64E-04	1.90E-05	2.15E-05
Molybdenum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phenanthrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pyrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00	0.00E+00
Zinc	1.33E-02	5.24E-02	9.92E-01	3.89E+00	4.14E-02	1.62E-01
LPAH	8.89E-04	7.29E-03	5.36E-04	4.40E-03	1.50E-04	1.23E-03
HPAH	9.86E-03	4.93E-03	5.95E-03	2.98E-02	1.67E-03	8.35E-03
TOTAL PAHs	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I O I AL I AIIS	0.00L+00	0.00∟+00	0.00∟+00	J.00L+00	0.00∟+00	3.00L+00

### **TABLE E-9** ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR BACKGROUND SOIL DEER MOUSE

Ecological Hazard Quotient = Intake/TRV

Parameter Intake TRV Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Default see Intake

Chemical	Average Intake	RME Intake	TRV (deer mouse)	Average EHQ	RME EHQ
A	4.005.04	0.005.04	4.055.04	0.705.04	0.045.00
Antimony	1.22E-01	2.80E-01	1.25E-01	9.76E-01	2.24E+00
Arsenic	1.65E-01	2.14E-01	F 40F : 04	7.005.04	4.445.00
Barium	3.83E+01	5.77E+01	5.18E+01	7.38E-01	1.11E+00
Benzo(a)anthracene	1.95E-04	7.69E-04			
Benzo(a)pyrene	3.37E-04	1.19E-03			
Benzo(b)fluoranthene	2.60E-04	8.97E-04			
Benzo(g,h,i)perylene	3.47E-05	7.58E-05			
Benzo(k)fluoranthene	4.89E-04	1.84E-03			
Cadmium	1.31E-02	4.62E-02	7.70E-01	1.69E-02	5.99E-02
Chromium	1.03E-01	1.15E-01	2.40E+00	4.29E-02	4.78E-02
Chrysene	2.87E-04	9.44E-04			
Copper	1.46E+00	1.73E+00	5.60E+00	2.60E-01	3.10E-01
Fluoranthene	2.99E-05	2.25E-04			
Indeno(1,2,3-cd)pyrene	1.62E-03	1.22E-02			
Lead	3.14E-01	3.35E-01	4.70E+00	6.68E-02	7.13E-02
Lithium	3.04E-02	3.47E-02			
Manganese	5.43E-01	6.21E-01			
Mercury	5.27E-04	5.97E-04	1.01E+00	5.22E-04	5.91E-04
Molybdenum	7.51E-04	8.13E-04			
Phenanthrene	2.40E-05	1.97E-04			
Pyrene	3.14E-05	1.05E-04			
Zinc	4.68E+01	1.84E+02	7.54E+01	6.20E-01	2.43E+00
LPAH	5.05E-04	4.15E-03	6.56E+01	7.70E-06	6.32E-05
HPAH	5.61E-03	2.81E-02	6.15E-01	9.12E-03	4.56E-02
TOTAL PAHs	6.11E-03	3.22E-02			

### TABLE E-10 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR BACKGROUND SOIL COYOTE

Ecological Hazard Quotient = Intake/TRV

Parameter Intake TRV Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Default see Intake

Chemical  Antimony Arsenic Barium	4.29E-05 3.10E-04 2.25E-03 7.53E-06 2.24E-05	9.86E-05 4.04E-04 3.39E-03 2.97E-05	TRV Coyote 1.25E-01 5.18E+01	Average EHQ 3.43E-04	7.89E-04	
Arsenic <sup>*</sup> Barium	3.10E-04 2.25E-03 7.53E-06 2.24E-05	4.04E-04 3.39E-03			7.89E-04	
Barium	2.25E-03 7.53E-06 2.24E-05	3.39E-03	5.18E+01			
	7.53E-06 2.24E-05		5.18E+01			
<b>5</b> ( ) (1	2.24E-05	2.97E-05		4.35E-05	6.55E-05	
Benzo(a)anthracene						
Benzo(a)pyrene	0.045.05	7.90E-05				
Benzo(b)fluoranthene	2.04E-05	7.04E-05				
Benzo(g,h,i)perylene	0.00E+00	0.00E+00				
Benzo(k)fluoranthene	3.41E-05	1.28E-04				
Cadmium	3.80E-05	1.34E-04	7.70E-01	4.93E-05	1.74E-04	
Chromium	3.77E-03	4.21E-03	2.40E+00	1.57E-03	1.75E-03	
Chrysene	1.08E-05	3.56E-05				
Copper	0.00E+00	0.00E+00	5.60E+00	0.00E+00	0.00E+00	
Fluoranthene	0.00E+00	0.00E+00				
Indeno(1,2,3-cd)pyrene	6.17E-04	4.67E-03				
Lead	1.82E-04	1.94E-04	4.70E+00	3.87E-05	4.13E-05	
Lithium	0.00E+00	0.00E+00				
Manganese	0.00E+00	0.00E+00				
Mercury	1.08E-05	1.23E-05	1.01E+00	1.07E-05	1.21E-05	
Molybdenum	0.00E+00	0.00E+00				
Phenanthrene	0.00E+00	0.00E+00				
Pyrene	0.00E+00	0.00E+00				
Zinc	2.58E-02	1.01E-01	7.54E+01	3.42E-04	1.34E-03	
LPAH	8.01E-05	6.57E-04	6.56E+01	1.22E-06	1.00E-05	
HPAH	8.88E-04	4.44E-03	6.15E-01	1.44E-03	7.23E-03	
TOTAL PAHs	0.00E+00	0.00E+00				

### TABLE E-11 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR BACKGROUND SOIL SOUTH OF MARLIN RAT SNAKE

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default see Intake

Intake TRV see TRV summary page

Chemical	Average Intake	RME Intake	TRV Rat Snake	Average EHQ	RME EHQ	
Antimony	1.84E-03	4.22E-03	1.25E-01	1.47E-02	3.38E-02	
Arsenic	5.14E-03	6.69E-03				
Barium	6.40E-01	9.65E-01	5.18E+01	1.24E-02	1.86E-02	
Benzo(a)anthracene	1.47E-05	5.78E-05				
Benzo(a)pyrene	1.97E-05	6.97E-05				
Benzo(b)fluoranthene	1.57E-05	5.43E-05				
Benzo(g,h,i)perylene	2.51E-05	5.48E-05				
Benzo(k)fluoranthene	2.70E-05	1.02E-04				
Cadmium	1.57E-04	5.56E-04	1.45E+00	1.08E-04	3.84E-04	
Chromium	1.70E-02	1.90E-02	2.66E+00	6.41E-03	7.14E-03	
Chrysene	1.92E-05	6.30E-05				
Copper	1.45E-02	1.73E-02	4.05E+00	3.59E-03	4.27E-03	
Fluoranthene	2.16E-05	1.62E-04				
Indeno(1,2,3-cd)pyrene	1.75E-04	1.32E-03				
Lead	1.56E-02	1.67E-02	1.63E+00	9.58E-03	1.02E-02	
Lithium	2.20E-02	2.51E-02				
Manganese	3.92E-01	4.49E-01				
Mercury	2.72E-05	3.08E-05	3.25E+00	8.38E-06	9.48E-06	
Molybdenum	5.43E-04	5.88E-04				
Phenanthrene	1.74E-05	1.42E-04				
Pyrene	2.27E-05	7.57E-05				
Zinc	8.14E-01	3.19E+00	6.61E+01	1.23E-02	4.83E-02	
LPAH	3.50E-05	2.87E-04	6.56E+01	5.33E-07	4.38E-06	
HPAH	3.88E-04	1.94E-03	6.15E-01	6.31E-04	3.16E-03	
TOTAL PAHs	4.23E-04	2.23E-03				

## TABLE E-12 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR BACKGROUND SOIL AMERICAN ROBIN

Ecological Hazard Quotient = Intake/TRV

 Parameter
 Definition
 Default

 Intake
 Intake of COPC (mg/kg-day)
 see Intake

TRV Toxicity Reference Value (mg/kg) see TRV summary page

Average Intake Average EHQ RME TRV RME EHQ Chemical Intake American Robin Antimony 1.05E-01 2.42E-01 1.25E-01 8.41E-01 1.93E+00 Arsenic 2.06E-01 2.69E-01 Barium 3.62E+01 5.45E+01 6.98E-01 1.05E+00 5.18E+01 Benzo(a)anthracene 3.14E-04 1.24E-03 5.24E-04 Benzo(a)pyrene 1.85E-03 Benzo(b)fluoranthene 4.04E-04 1.40E-03 Benzo(g,h,i)perylene 3.43E-04 7.51E-04 Benzo(k)fluoranthene 7.42E-04 2.80E-03 Cadmium 1.29E-02 4.57E-02 1.47E+00 8.79E-03 3.11E-02 Chromium 2.82E-01 3.15E-01 2.66E+00 1.06E-01 1.18E-01 Chrysene 4.51E-04 1.48E-03 Copper 5.40E-01 6.42E-01 4.05E+00 1.33E-01 1.58E-01 Fluoranthene 2.96E-04 2.22E-03 Indeno(1,2,3-cd)pyrene 2.58E-03 1.95E-02 Lead 3.76E-01 4.01E-01 2.31E-01 2.46E-01 1.63E+00 Lithium 3.01E-01 3.44E-01 Manganese 5.38E+00 6.15E+00 Mercury 6.77E-04 7.65E-04 3.25E+00 2.08E-04 2.36E-04 Molybdenum 7.44E-03 8.05E-03 Phenanthrene 2.38E-04 1.95E-03 Pyrene 3.11E-04 1.04E-03 2.33E+02 9.00E-01 3.53E+00 Zinc 5.95E+01 6.61E+01 LPAH 7.23E-04 5.93E-03 6.56E+01 1.10E-05 9.04E-05 HPAH 8.02E-03 6.15E-01 1.30E-02 6.53E-02 4.01E-02 TOTAL PAHs 4.61E-02 8.75E-03

### TABLE E-13 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR BACKGROUND SOIL RED-TAILED HAWK

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default see Intake

Intake TRV see TRV summary page

Chemical	Average Intake	RME Intake	TRV Red-Tailed Hawk	Average EHQ	RME EHQ	
Antimony	8.31E-05	1.91E-04	1.25E-01	6.65E-04	1.53E-03	
Arsenic	6.01E-04	7.82E-04				
Barium	4.36E-03	6.57E-03	5.18E+01	8.42E-05	1.27E-04	
Benzo(a)anthracene	1.41E-05	5.57E-05				
Benzo(a)pyrene	4.20E-05	1.48E-04				
Benzo(b)fluoranthene	3.83E-05	1.32E-04				
Benzo(g,h,i)perylene	0.00E+00	0.00E+00				
Benzo(k)fluoranthene	6.40E-05	2.41E-04				
Cadmium	6.05E-05	2.14E-04	1.47E+00	4.11E-05	1.45E-04	
Chromium	7.30E-03	8.14E-03	2.66E+00	2.75E-03	3.06E-03	
Chrysene	2.03E-05	6.69E-05				
Copper	0.00E+00	0.00E+00	4.05E+00	0.00E+00	0.00E+00	
Fluoranthene	0.00E+00	0.00E+00				
Indeno(1,2,3-cd)pyrene	1.16E-03	8.77E-03				
Lead	3.52E-04	3.75E-04	1.63E+00	2.16E-04	2.30E-04	
Lithium	0.00E+00	0.00E+00				
Manganese	0.00E+00	0.00E+00				
Mercury	1.90E-05	2.15E-05	3.25E+00	5.84E-06	6.61E-06	
Molybdenum	0.00E+00	0.00E+00				
Phenanthrene	0.00E+00	0.00E+00				
Pyrene	0.00E+00	0.00E+00				
Zinc	4.14E-02	1.62E-01	6.61E+01	6.26E-04	2.46E-03	
LPAH	1.50E-04	1.23E-03	6.56E+01	2.29E-06	1.88E-05	
HPAH	1.67E-03	8.35E-03	6.15E-01	2.71E-03	1.36E-02	
TOTAL PAHs	0.00E+00	0.00E+00				

## TABLE E-14 AVERAGE CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg)

Cfood = Csoil x BCF (or BAF)

Cfood = Csoil = BCF BAF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Bioconcentration Factor (unitless) Bioaccumulation Factor (unitless)

Compound	Average Csoil S	oil to Earthworm	Earthworm Reference	Soil to Arthropod	Arthropod Reference	Soil to Plant	Plant/Fruit/Seed Reference	Plant to Wildlife	Plant to Deer Mouse Reference	Soil to Wildlife	Soil to Deer Mouse Reference	TOTAL DEER MOUSE	Plant to Bird	d Plant to Bird Reference	Soil to Bird	Soil to Bird Reference	TOTAL BIRD
	(mg/kg)	BCF C	concentration	BCF	Concentration	BAF	Concentration	BCF	Concentration	BCF	Concentration	CONCENTRATION	BCF	Concentration	BCF	Concentration	CONCENTRATION
Antimony	9.53E-01	2.20E-01	2.10E-01 EPA, 1999	2.20E-01	2.10E-01 EPA, 1999	2.00E-01	1.91E-01 EPA, 1999	5.99E-04	5.71E-04 EPA, 1999	1.44E-06	1.37E-06 EPA, 1999	5.72E-04		0.00E+00		0.00E+00	0.00E+00
Arsenic	3.44E+00	1.10E-01	3.78E-01 EPA, 1999	1.10E-01	3.78E-01 EPA, 1999	3.60E-02	1.24E-01 EPA, 1999	1.20E-03	4.13E-03 EPA, 1999	2.88E-06	9.90E-06 EPA, 1999	4.14E-03		0.00E+00		0.00E+00	0.00E+00
Barium	3.33E+02	2.20E-01	7.33E+01 EPA, 1999	2.20E-01	7.33E+01 EPA, 1999	1.50E-01	5.00E+01 EPA, 1999	8.99E-05	2.99E-02 EPA, 1999	2.16E-07	7.19E-05 EPA, 1999	3.00E-02		0.00E+00		0.00E+00	0.00E+00
Benzo(a)anthracene	1.16E-02	3.00E-02	3.48E-04 EPA, 1999	3.00E-02	3.48E-04 EPA, 1999	2.02E-02	2.34E-04 EPA, 1999	7.19E-03	8.34E-05 EPA, 1999	1.73E-05	2.01E-07 EPA, 1999	8.36E-05	4.20E-03	4.87E-05 EPA, 1999	1.35E-04		5.03E-05
Benzo(a)pyrene	1.22E-02	7.00E-02	8.54E-04 EPA, 1999	7.00E-02	8.54E-04 EPA, 1999	1.01E-02	1.23E-04 EPA, 1999	2.03E-02	2.48E-04 EPA, 1999	4.86E-05	5.93E-07 EPA, 1999	2.48E-04	1.19E-02	1.45E-04 EPA, 1999	3.81E-04	4.65E-06 EPA, 1999	1.50E-04
Benzo(b)fluoranthene	9.41E-03	7.00E-02	6.59E-04 EPA, 1999	7.00E-02	6.59E-04 EPA, 1999	1.01E-02	9.50E-05 EPA, 1999	2.40E-02	2.26E-04 EPA, 1999	5.75E-05	5.41E-07 EPA, 1999	2.26E-04	1.40E-02	1.32E-04 EPA, 1999	4.50E-04	4.23E-06 EPA, 1999	1.36E-04
Benzo(g,h,i)perylene	2.41E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Benzo(k)fluoranthene	1.58E-02	8.00E-02	1.26E-03 EPA, 1999	8.00E-02	1.26E-03 EPA, 1999	1.01E-02	1.60E-04 EPA, 1999	2.39E-02	3.78E-04 EPA, 1999	5.73E-05	9.05E-07 EPA, 1999	3.79E-04	1.39E-02	2.20E-04 EPA, 1999	4.48E-04	7.08E-06 EPA, 1999	2.27E-04
Cadmium	3.11E-02	9.60E-01	2.99E-02 EPA, 1999	9.60E-01	2.99E-02 EPA, 1999	3.64E-01	1.13E-02 EPA, 1999	7.19E-05	2.24E-06 EPA, 1999	1.73E-07	5.38E-09 EPA, 1999	2.24E-06	4.71E-02	1.46E-03 EPA, 1999	1.51E-03	4.70E-05 EPA, 1999	1.51E-03
Chromium	1.52E+01	1.00E-02	1.52E-01 EPA, 1999	1.00E-02	1.52E-01 EPA, 1999	7.50E-03	1.14E-01 EPA, 1999	3.30E-03	5.02E-02 VI - EPA, 1999	7.91E-06	1.20E-04 VI - EPA, 1999	5.03E-02		0.00E+00		0.00E+00	0.00E+00
Chrysene	1.45E-02	4.00E-02	5.80E-04 EPA, 1999	4.00E-02	5.80E-04 EPA, 1999	1.87E-02	2.71E-04 EPA, 1999	8.27E-03	1.20E-04 EPA, 1999	1.99E-05	2.89E-07 EPA, 1999	1.20E-04	4.84E-03	7.02E-05 EPA, 1999	1.55E-04	2.25E-06 EPA, 1999	7.24E-05
Copper	1.21E+01	4.00E-02	4.85E-01 EPA, 1999	4.00E-02	4.85E-01 EPA, 1999	4.00E-01	4.85E+00 EPA, 1999		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Fluoranthene	2.08E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene	5.51E-02	8.00E-02	4.41E-03 EPA, 1999	8.00E-02	4.41E-03 EPA, 1999	3.90E-03	2.15E-04 EPA, 1999	1.24E-01	6.83E-03 EPA, 1999	2.98E-04	1.64E-05 EPA, 1999	6.85E-03	7.24E-02	3.99E-03 EPA, 1999	2.32E-03		4.12E-03
Lead	1.34E+01	3.00E-02	4.03E-01 EPA, 1999	3.00E-02	4.03E-01 EPA, 1999	4.50E-02	6.04E-01 EPA, 1999	1.80E-04	2.42E-03 EPA, 1999	4.32E-07	5.80E-06 EPA, 1999	2.42E-03		0.00E+00		0.00E+00	0.00E+00
Lithium	2.11E+01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Manganese	3.77E+02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Mercury	2.13E-02	4.00E-02	8.52E-04 EPA, 1999	4.00E-02	8.52E-04 EPA, 1999	3.75E-02	7.99E-04 EPA, 1999	3.13E-03	6.67E-05 EPA, 1999	7.52E-06	1.60E-07 EPA, 1999	6.68E-05	1.06E-02	2.26E-04 EPA, 1999	3.42E-04		2.33E-04
Molybdenum	5.22E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Phenanthrene	1.67E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pyrene	2.18E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Zinc	2.47E+02	5.60E-01	1.38E+02 EPA, 1999	5.60E-01	1.38E+02 EPA, 1999	1.20E-12	2.96E-10 EPA, 1999	5.39E-05	1.33E-02 EPA, 1999	1.29E-07	3.19E-05 EPA, 1999	1.33E-02	3.89E-03	9.61E-01 EPA, 1999	1.25E-04	3.09E-02 EPA, 1999	9.92E-01
LPAH	1.67E-02	7.00E-02	1.17E-03 EPA, 1999*	7.00E-02	1.17E-03 EPA, 1999*	2.02E-02	3.37E-04 EPA, 1999*	5.31E-02	8.87E-04 EPA, 1999*	1.27E-04	2.12E-06 EPA, 1999*	8.89E-04	3.11E-02	5.19E-04 EPA, 1999*	9.98E-04	1 1.67E-05 EPA, 1999*	5.36E-04
HPAH	1.85E-01	7.00E-02	1.30E-02 EPA, 1999*	7.00E-02	1.30E-02 EPA, 1999*	2.02E-02	3.74E-03 EPA, 1999*	5.31E-02	9.84E-03 EPA, 1999*	1.27E-04	2.35E-05 EPA, 1999*	9.86E-03	3.11E-02	5.76E-03 EPA, 1999*	9.98E-04		5.95E-03
TOTAL PAHs	2.02E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00

Notes:
Does not exceed screening criteria but is considered bioaccumulative.
Exceeds screening criteria but is not considered bioaccumulative.
Exceeds screening criteria and is considered bioaccumulative.
\* For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.
EPA, 2007a - DDT
EPA, 2007b - PAHs
EPA, 2007c - Copper
EPA, 2007c - Copper
EPA, 2007c - Xince
EPA, 2007c - Zinc
EPA, 2005a - Antimony
EPA, 2005a - Cadmium
EPA, 2005c - Chromium
EPA, 2005c - Chromium
EPA, 2005c - Lead

## TABLE E-15 RME CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg)

Cfood = Csoil x BCF (or BAF)

Cfood = Csoil = BCF BAF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Bioconcentration Factor (unitless) Bioaccumulation Factor (unitless)

Compound	RME Csoil S	Soil to Earthworm	Earthworm Reference	Soil to Arthropod	Arthropod Reference	Soil to Plant	Plant/Fruit/Seed Reference	Plant to Wildlife	Plant to Deer Mouse Reference	Soil to Wildlife	Soil to Deer Mouse Reference	TOTAL DEER MOUSE	Plant to Bird	Plant to Bird Reference	Soil to Bird	Soil to Bird Reference	TOTAL BIRD
•	(mg/kg)	BCF C	Concentration	BCF .	Concentration	BAF	Concentration	BCF	Concentration	BCF	Concentration	CONCENTRATION	BCF	Concentration	BCF	Concentration	CONCENTRATION
Antimony	2.19E+00	2.20E-01	4.82E-01 EPA, 1999	2.20E-01	4.82E-01 EPA, 1999	2.00E-01	4.38E-01 EPA, 1999	5.99E-04	1.31E-03 EPA, 1999	1.44E-06	3.15E-06 EPA, 1999	1.31E-03		0.00E+00		0.00E+00	0.00E+00
Arsenic	4.48E+00	1.10E-01	4.92E-01 EPA, 1999	1.10E-01	4.92E-01 EPA, 1999	3.60E-02	1.61E-01 EPA, 1999	1.20E-03	5.37E-03 EPA, 1999	2.88E-06	1.29E-05 EPA, 1999	5.39E-03		0.00E+00		0.00E+00	0.00E+00
Barium	5.02E+02	2.20E-01	1.11E+02 EPA, 1999	2.20E-01	1.11E+02 EPA, 1999	1.50E-01	7.53E+01 EPA, 1999	8.99E-05	4.52E-02 EPA, 1999	2.16E-07	1.08E-04 EPA, 1999	4.53E-02		0.00E+00		0.00E+00	0.00E+00
Benzo(a)anthracene	4.57E-02	3.00E-02	1.37E-03 EPA, 1999	3.00E-02	1.37E-03 EPA, 1999	2.02E-02	9.23E-04 EPA, 1999	7.19E-03	3.29E-04 EPA, 1999	1.73E-05	7.91E-07 EPA, 1999	3.29E-04	4.20E-03	1.92E-04 EPA, 1999	1.35E-0		
Benzo(a)pyrene	4.31E-02	7.00E-02	3.02E-03 EPA, 1999	7.00E-02	3.02E-03 EPA, 1999	1.01E-02	4.35E-04 EPA, 1999	2.03E-02	8.75E-04 EPA, 1999	4.86E-05	2.09E-06 EPA, 1999	8.77E-04	1.19E-02	5.13E-04 EPA, 1999	3.81E-0	4 1.64E-05 EPA, 1999	5.29E-04
Benzo(b)fluoranthene	3.25E-02	7.00E-02	2.28E-03 EPA, 1999	7.00E-02	2.28E-03 EPA, 1999	1.01E-02	3.28E-04 EPA, 1999	2.40E-02	7.80E-04 EPA, 1999	5.75E-05	1.87E-06 EPA, 1999	7.82E-04	1.40E-02	4.55E-04 EPA, 1999	4.50E-0	4 1.46E-05 EPA, 1999	
Benzo(g,h,i)perylene	5.27E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Benzo(k)fluoranthene	5.95E-02	8.00E-02	4.76E-03 EPA, 1999	8.00E-02	4.76E-03 EPA, 1999	1.01E-02	6.01E-04 EPA, 1999	2.39E-02	1.42E-03 EPA, 1999	5.73E-05	3.41E-06 EPA, 1999	1.43E-03	1.39E-02	8.27E-04 EPA, 1999	4.48E-0	4 2.67E-05 EPA, 1999	
Cadmium	1.10E-01	9.60E-01	1.06E-01 EPA, 1999	9.60E-01	1.06E-01 EPA, 1999	3.64E-01	4.00E-02 EPA, 1999	7.19E-05	7.91E-06 EPA, 1999	1.73E-07	1.90E-08 EPA, 1999	7.93E-06	4.71E-02	5.18E-03 EPA, 1999	1.51E-0	3 1.66E-04 EPA, 1999	5.35E-03
Chromium	1.70E+01	1.00E-02	1.70E-01 EPA, 1999	1.00E-02	1.70E-01 EPA, 1999	7.50E-03	1.27E-01 EPA, 1999	3.30E-03	5.59E-02 VI - EPA, 1999	7.91E-06	1.34E-04 VI - EPA, 1999			0.00E+00		0.00E+00	0.00E+00
Chrysene	4.77E-02	4.00E-02	1.91E-03 EPA, 1999	4.00E-02	1.91E-03 EPA, 1999	1.87E-02	8.92E-04 EPA, 1999	8.27E-03	3.94E-04 EPA, 1999	1.99E-05	9.49E-07 EPA, 1999	3.95E-04	4.84E-03	2.31E-04 EPA, 1999	1.55E-0	4 7.39E-06 EPA, 1999	
Copper	1.44E+01	4.00E-02	5.76E-01 EPA, 1999	4.00E-02	5.76E-01 EPA, 1999	4.00E-01	5.76E+00 EPA, 1999		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Fluoranthene	1.56E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene	4.17E-01	8.00E-02	3.34E-02 EPA, 1999	8.00E-02	3.34E-02 EPA, 1999	3.90E-03	1.63E-03 EPA, 1999	1.24E-01	5.17E-02 EPA, 1999	2.98E-04	1.24E-04 EPA, 1999	5.18E-02	7.24E-02	3.02E-02 EPA, 1999	2.32E-0	3 9.67E-04 EPA, 1999	3.12E-02
Lead	1.43E+01	3.00E-02	4.30E-01 EPA, 1999	3.00E-02	4.30E-01 EPA, 1999	4.50E-02	6.45E-01 EPA, 1999	1.80E-04	2.58E-03 EPA, 1999	4.32E-07	6.19E-06 EPA, 1999	2.59E-03		0.00E+00		0.00E+00	0.00E+00
Lithium	2.41E+01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Manganese	4.32E+02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Mercury	2.41E-02	4.00E-02	9.64E-04 EPA, 1999	4.00E-02	9.64E-04 EPA, 1999	3.75E-02	9.04E-04 EPA, 1999	3.13E-03	7.54E-05 EPA, 1999	7.52E-06	1.81E-07 EPA, 1999	7.56E-05	1.06E-02	2.55E-04 EPA, 1999	3.42E-0	4 8.24E-06 EPA, 1999	2.64E-04
Molybdenum	5.65E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Phenanthrene	1.37E-01		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Pyrene	7.28E-02		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Zinc	9.69E+02	5.60E-01	5.43E+02 EPA, 1999	5.60E-01	5.43E+02 EPA, 1999	1.20E-12	1.16E-09 EPA, 1999	5.39E-05	5.22E-02 EPA, 1999	1.29E-07	1.25E-04 EPA, 1999	5.24E-02	3.89E-03	3.77E+00 EPA, 1999	1.25E-0	4 1.21E-01 EPA, 1999	3.89E+00
LPAH	1.37E-01	7.00E-02	9.59E-03 EPA, 1999*	7.00E-02	9.59E-03 EPA, 1999*	2.02E-02	2.77E-03 EPA, 1999*	5.31E-02	7.27E-03 EPA, 1999*	1.27E-04	1.74E-05 EPA, 1999*	7.29E-03	3.11E-02	4.26E-03 EPA, 1999*	9.98E-0	4 1.37E-04 EPA, 1999*	* 4.40E-03
HPAH	9.27E-01	7.00E-02	6.49E-02 EPA, 1999*	7.00E-02	6.49E-02 EPA, 1999*	2.02E-02	1.87E-02 EPA, 1999*	5.31E-02	4.92E-02 EPA, 1999*	1.27E-04	1.18E-04 EPA, 1999*	4.93E-02	3.11E-02	2.88E-02 EPA, 1999*	9.98E-0	4 9.25E-04 EPA, 1999*	* 2.98E-02
TOTAL PAHs	1.06E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00

Notes:

Does not exceed screening criteria but is considered bioaccumulative.

Exceeds screening criteria but is not considered bioaccumulative.

Exceeds screening criteria and is considered bioaccumulative.

For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

EPA, 2007a - DDT

EPA, 2007b - PAHs

EPA, 2007c - Copper

EPA, 2007c - Cinch

EPA, 2007c - Xinch

EPA, 2005a - Antimony

EPA, 2005a - Cadmium

EPA, 2005c - Chromium

EPA, 2005c - Chromium

EPA, 2005c - Lead

TABLE F-1
EXPOSURE POINT CONCENTATION (mg/kg)
INTRACOASTAL WATERWAY SEDIMENT

			Statistic
Parameter	Average	95% UCL	Used
2-Methylnaphthalene	0.0083	0.0096	95% Student's-t
4,4'-DDT	4.11E-04	0.0023	99% Chebyshev
Acenaphthylene	0.0116	0.0273	95% Chebyshev
Anthracene	0.0201	0.0424	95% Chebyshev
Benzo(a)anthracene	0.0454	0.301	99% Chebyshev
Benzo(a)pyrene	0.0661	0.352	99% Chebyshev
Benzo(b)fluoranthene	0.1	0.491	99% Chebyshev
Benzo(g,h,i)perylene	0.0661	0.357	99% Chebyshev
Benzo(k)fluoranthene	0.0589	0.271	99% Chebyshev
Chrysene	0.0774	0.153	95% Approx. Gamma
Dibenz(a,h)anthracene	0.0435	0.205	99% Chebyshev
Fluoranthene	0.113	0.614	99% Chebyshev
Fluorene	0.0122	0.0243	95% Chebyshev
gamma-Chlordane	3.13E-04	5.70E-04	95% Chebyshev
Hexachlorobenzene	0.01	0.0126	95% Student's-t
Indeno(1,2,3-cd)pyrene	0.0722	0.347	99% Chebyshev
Phenanthrene	0.0746	0.388	99% Chebyshev
Pyrene	0.13	0.678	99% Chebyshev
LPAH	0.1268	0.4916	
НРАН	0.7726	3.769	
TOTAL PAHs	0.8994	4.2606	

## TABLE F-2 TOXICITY REFERENCE VALUES

				Capitella																	
	Capitella			capitata			Fiddler Crab			Black Drum			Spotted seatrout			Sandpiper			Green heron		
Parameter	capitata (mg/kg)	Ref.	Comments	(mg/kg)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments
2-Methylnaphthalene	0.07	SQUIRT	ERL	0.67	SQUIRT	ERM															
																		Highest bounded NOAEL			Highest bounded NOAEL
																		for growth and			for growth and reproduction
																		reproduction lower than			lower than the lowest
																		the lowest bounded			bounded LOAEL for
4 4 557	0.004	0011107	FRI	0.007	COLUDE	5514	0.447	ED4 0007	" TD\// "	0.447	ED4 0007	: TD\(( ::	0.447	ED4 0007	" TD\(( "	0.007	ED4 0007	LOAEL for reproduction,	0.007	ED4 0007	reproduction, growth, and
4,4'-DDT	0.001	SQUIRT	ERL	0.007	SQUIRT	ERM ERM	0.147	EPA, 2007a	mammalian TRV for soil	0.147	EPA, 2007a	mammalian TRV for soil	0.147	EPA, 2007a	mammalian TRV for soil	0.227	EPA, 2007a	growth, and survival	0.227	EPA, 2007a	survival
Acenaphthylene Anthracene	0.044 0.0853	SQUIRT	FRI	0.64	SQUIRT	ERM															
Benzo(a)anthracene	0.065	SQUIRT	ERL	1.6	SQUIRT	ERM	+	+	-		+							-			
Benzo(a)pyrene	0.261	SQUIRT	FRI	1.6	SQUIRT	ERM	+	+	-		+							-			
Benzo(b)fluoranthene	1.8	SQUIRT	AFT	1.8	SQUIRT	AET	+	+	-		+							-			
Benzo(a.h.i)pervlene	0.67	SQUIRT	AET	0.67	SQUIRT	AET		1													
Benzo(k)fluoranthene	1.8	SQUIRT	AFT	1.8	SQUIRT	AET															
Chrysene	0.384	SQUIRT	FRI	2.8	SQUIRT	ERM															
Dibenz(a,h)anthracene	0.0634	SQUIRT	ERL	0.26	SQUIRT	ERM															
Fluoranthene	0.6	SQUIRT	ERL	5.1	SQUIRT	ERM															
Fluorene	0.019	SQUIRT	ERL	0.54	SQUIRT	ERM															
																		Chronic NOAEL in red-			Chronic NOAEL in red-
gamma-Chlordane	5.00E-04	SQUIRT	ERL	0.006	SQUIRT	ERM	4.6	Sample, 1996	mammalian TRV for soil	4.6	Sample, 1996	mammalian TRV for soil	4.6	Sample, 1996	mammalian TRV for soil	2.14	Sample, 1996	winged blackbird	2.14	Sample, 1996	winged blackbird
Hexachlorobenzene	0.006	SQUIRT	AET	0.006	SQUIRT	AET	0.225	EPA, 1999	avian TRV for soil	0.225	EPA, 1999	avian TRV for soil	0.225	EPA, 1999	avian TRV for soil	0.225	EPA, 1999	avian TRV for soil	0.225	EPA, 1999	avian TRV for soil
Indeno(1,2,3-cd)pyrene	0.6	SQUIRT	AET	0.6	SQUIRT	AET															
Phenanthrene	0.24	SQUIRT	ERL	1.5	SQUIRT	ERM															
Pyrene	0.665	SQUIRT	ERL	2.6	SQUIRT	ERM															
LPAH	0.552	SQUIRT	ERL	3.162	SQUIRT	ERM	65.6	EPA. 2007b	mammalian TRV for soil	65.6	EDA 2007h	mammalian TRV for soil	65.6	EPA. 2007b	mammalian TRV for soil	65.6	EPA. 2007b	mammalian TRV for soil	65.6	EPA, 2007b	mammalian TRV for soil
LFAIT	0.552	SQUIKT	ENL	3.102	SQUIKT	ENW	05.0	EFA, 2007b	midpoint between NOAEL	05.0	EFA, 2007b	midpoint between	05.0	EFA, 2007b	midpoint between NOAEL	05.0	EFA, 2007b	midpoint between NOAEL	05.0	EFA, 2007b	midpoint between NOAEL
									and LOAEL for soil	1		NOAEL and LOAEL for			and LOAEL for soil			and LOAEL for soil			and LOAEL for soil
НРАН	17	SQUIRT	ERL	9.6	SQUIRT	ERM	9.31	EPA, 2007b	mammalian TRV	9.31	EPA, 2007b	soil mammalian TRV	9.31	EPA, 2007b	mammalian TRV	9.31	EPA. 2007b	mammalian TRV	9.31	EPA, 2007b	mammalian TRV
TOTAL PAHs	4.022	SQUIRT	ERL	44.792	SQUIRT	ERM	9.51	LI A, 2007D	mammamam mv	3.31	LI A, 2007D	Johnnammanan TKV	3.31	LI A, 2007D	mammanan mv	3.31	LI A, 2007D	manimalian mv	3.31	LI A, 2007D	mammamam mv

Notes: ERL -- Effects Range-Low AET -- Apparent Effects Threshold TEL -- Threshold Effects Level

EPA, 2007a -- DDT EPA, 2007b -- PAHs

# TABLE F-3 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT CAPITELLA CAPITATA

Ecological Hazard Quotient = Sc/TRV

Definition
Soil Concentration (mg/kg)
Toxicity Reference Value (mg/kg) Default see below

Parameter Sc TRV see TRV summary page

Chemical	Average Sc	RME Sc	TRV capitella capitata	Average EHQ	RME EHQ
2-Methylnaphthalene	8.30E-03	9.60E-03	7.00E-02	1.19E-01	1.37E-01
4,4'-DDT	4.11E-04	2.30E-03	1.00E-03	4.11E-01	2.30E+00
Acenaphthylene	1.16E-02	2.73E-02	4.40E-02	2.64E-01	6.20E-01
Anthracene	2.01E-02	4.24E-02	8.53E-02	2.36E-01	4.97E-01
Benzo(a)anthracene	4.54E-02	3.01E-01	2.61E-01	1.74E-01	1.15E+00
Benzo(a)pyrene	6.61E-02	3.52E-01	4.30E-01	1.54E-01	8.19E-01
Benzo(b)fluoranthene	1.00E-01	4.91E-01	1.80E+00	5.56E-02	2.73E-01
Benzo(g,h,i)perylene	6.61E-02	3.57E-01	6.70E-01	9.87E-02	5.33E-01
Benzo(k)fluoranthene	5.89E-02	2.71E-01	1.80E+00	3.27E-02	1.51E-01
Chrysene	7.74E-02	1.53E-01	3.84E-01	2.02E-01	3.98E-01
Dibenz(a,h)anthracene	4.35E-02	2.05E-01	6.34E-02	6.86E-01	3.23E+00
Fluoranthene	1.13E-01	6.14E-01	6.00E-01	1.88E-01	1.02E+00
Fluorene	1.22E-02	2.43E-02	1.90E-02	6.42E-01	1.28E+00
gamma-Chlordane	3.13E-04	5.70E-04	5.00E-04	6.26E-01	1.14E+00
Hexachlorobenzene	1.00E-02	1.26E-02	6.00E-03	1.67E+00	2.10E+00
Indeno(1,2,3-cd)pyrene	7.22E-02	3.47E-01	6.00E-01	1.20E-01	5.78E-01
Phenanthrene	7.46E-02	3.88E-01	2.40E-01	3.11E-01	1.62E+00
Pyrene	1.30E-01	6.78E-01	6.65E-01	1.95E-01	1.02E+00
LPAH	1.27E-01	4.92E-01	5.52E-01	2.30E-01	8.91E-01
HPAH	7.73E-01	3.77E+00	1.70E+00	4.54E-01	2.22E+00
TOTAL PAHs	8.99E-01	4.26E+00	4.02E+00	2.24E-01	1.06E+00

# TABLE F-4 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT CAPITELLA CAPITATA -- COMPARED WITH MIDPOINT BETWEEN ERLs and ERMs

Ecological Hazard Quotient = Sc/TRV

Definition
Soil Concentration (mg/kg)
Toxicity Reference Value (mg/kg) Parameter Sc TRV Default see below

Chemical	Average Sc	RME Sc	TRV capitella capitata	Average EHQ	RME EHQ
2-Methylnaphthalene	8.30E-03	9.60E-03	3.70E-01	2.24E-02	2.59E-02
4.4'-DDT	4.11E-04	2.30E-03	4.00E-03	1.03E-01	5.75E-02
'					
Acenaphthylene	1.16E-02	2.73E-02	3.42E-01	3.39E-02	7.98E-02
Anthracene	2.01E-02	4.24E-02	5.93E-01	3.39E-02	7.15E-02
Benzo(a)anthracene	4.54E-02	3.01E-01	9.31E-01	4.88E-02	3.23E-01
Benzo(a)pyrene	6.61E-02	3.52E-01	1.02E+00	6.51E-02	3.47E-01
Benzo(b)fluoranthene	1.00E-01	4.91E-01	1.80E+00	5.56E-02	2.73E-01
Benzo(g,h,i)perylene	6.61E-02	3.57E-01	6.70E-01	9.87E-02	5.33E-01
Benzo(k)fluoranthene	5.89E-02	2.71E-01	1.80E+00	3.27E-02	1.51E-01
Chrysene	7.74E-02	1.53E-01	1.59E+00	4.86E-02	9.61E-02
Dibenz(a,h)anthracene	4.35E-02	2.05E-01	1.62E-01	2.69E-01	1.27E+00
Fluoranthene	1.13E-01	6.14E-01	2.85E+00	3.96E-02	2.15E-01
Fluorene	1.22E-02	2.43E-02	2.80E-01	4.36E-02	8.69E-02
gamma-Chlordane	3.13E-04	5.70E-04	3.25E-03	9.64E-02	1.75E-01
Hexachlorobenzene	1.00E-02	1.26E-02	6.00E-03	1.67E+00	2.10E+00
Indeno(1,2,3-cd)pyrene	7.22E-02	3.47E-01	6.00E-01	1.20E-01	5.78E-01
Phenanthrene	7.46E-02	3.88E-01	8.70E-01	8.57E-02	4.46E-01
Pyrene	1.30E-01	6.78E-01	1.63E+00	7.96E-02	4.15E-01
LPAH	1.27E-01	4.92E-01	1.86E+00	6.83E-02	2.65E-01
HPAH	7.73E-01	3.77E+00	5.65E+00	1.37E-01	6.67E-01
TOTAL PAHs	8.99E-01	4.26E+00	2.44E+01	3.69E-02	1.75E-01

# TABLE F-5 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT FIDDLER CRAB

		TIDDLEIK OILING		
SEDIMENT INGESTION	NC			
INTAKE = (Sc * IR * A	F * AUF) / (BW)			
Parameter	Definition		Value	Reference
Intake	Intake of chemical (mg/kg-day)		calculated	. 10.0.0.00
Sc	Sed concentration (mg/kg)		see data page	
IR	Ingestion rate of sed (kg/day)		1.16E-08	Cammen, 1979
AF	Chemical Bioavailability in sediment (unitles	20)	1.102-00	EPA, 1997
AUF	Area Use Factor	55)	1	EPA, 1997 EPA, 1997
			•	
BW	Body weight (kg)		9.00E-03	based on width/length eq.
	Average	RME	Average	RME
Chemical	Sc	Sc	Intake	Intake
2-Methylnaphthalene	8.30E-03	9.60E-03	1.07E-08	1.23E-08
4,4'-DDT	4.11E-04	2.30E-03	5.28E-10	2.95E-09
Acenaphthylene	1.16E-02	2.73E-02	1.49E-08	3.51E-08
Anthracene	2.01E-02	4.24E-02	2.58E-08	5.45E-08
Benzo(a)anthracene	4.54E-02	3.01E-01	5.83E-08	3.87E-07
Benzo(a)pyrene	4.54E-02 6.61E-02	3.52E-01	5.65E-06 8.49E-08	4.52E-07
Benzo(b)fluoranthene	1.00E-01	4.91E-01	1.28E-07	6.31E-07
Benzo(g,h,i)perylene	6.61E-02	3.57E-01	8.49E-08	4.59E-07
Benzo(k)fluoranthene	5.89E-02	2.71E-01	7.57E-08	3.48E-07
Chrysene	7.74E-02	1.53E-01	9.94E-08	1.97E-07
Dibenz(a,h)anthracene	e 4.35E-02	2.05E-01	5.59E-08	2.63E-07
Fluoranthene	1.13E-01	6.14E-01	1.45E-07	7.89E-07
Fluorene	1.22E-02	2.43E-02	1.57E-08	3.12E-08
gamma-Chlordane	3.13E-04	5.70E-04	4.02E-10	7.33E-10
Hexachlorobenzene	1.00E-02	1.26E-02	1.28E-08	1.62E-08
Indeno(1,2,3-cd)pyren		3.47E-01	9.27E-08	4.46E-07
Phenanthrene	7.46E-02	3.88E-01	9.58E-08	4.98E-07
Pyrene	1.30E-02	6.78E-01	9.56E-06 1.67E-07	8.71E-07
LPAH	1.27E-01	4.92E-01	1.63E-07	6.31E-07
HPAH	7.73E-01	3.77E+00	9.92E-07	4.84E-06
TOTAL PAHs	8.99E-01	4.26E+00	1.16E-06	5.47E-06
FOOD INGESTION				
INTAKE = (Ci * IR * DI	Fi * AUF) / (BW)			
Parameter	Definition		Value	Reference
Intake	Intake of chemical (mg/kg-day)		calculated	. 13.5101100
Ci	Invertebrate concentration (mg/kg)		see FoodConc pag	A
IR	Ingestion rate of of food (kg/day)		1.16E-08	Cammen, 1979
Dfi	( ) ,		1.00E+00	
	Dietary fraction of invertebrates (unitless)			TPWD website
AUF	Area Use Factor		1	EPA, 1997
BW	Body weight (kg)		9.00E-03	ased on width/length eq.
	A	DME	A	DME
Chemical	Averaç Invertebi	ge RME rate Invertebrate	Average Intake	RME Intake
	4.045	4.555.00	4.705.00	4.005.00
2-Methylnaphthalene	1.34E		1.72E-08	1.99E-08
4,4'-DDT	3.29E		4.22E-10	2.36E-09
Acenaphthylene	1.87E		2.40E-08	5.65E-08
Anthracene	3.24E	-02 6.83E-02	4.16E-08	8.77E-08
Benzo(a)anthracene	6.58E	-02 4.36E-01	8.46E-08	5.61E-07
Benzo(a)pyrene	1.05E		1.35E-07	7.19E-07
Benzo(b)fluoranthene	1.61E		2.07E-07	1.02E-06
Benzo(g,h,i)perylene	1.06E		1.37E-07	7.38E-07
Benzo(k)fluoranthene	9.48E		1.22E-07	5.60E-07
Chrysene	1.07E		1.37E-07	2.71E-07
Dibenz(a,h)anthracene			9.00E-08	4.24E-07
וווומטפווען a,ii)ai ili ii abelik	7.00E	02 0.00E-01	3.UUE-U0	7.∠7L <sup>-</sup> U <i>I</i>

TABLE F-5
INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT
FIDDLER CRAB

Fluoranthene	1.82E-01	9.89E-01	2.34E-07	1.27E-06	
Fluorene	1.96E-02	3.91E-02	2.52E-08	5.03E-08	
gamma-Chlordane	1.84E-03	3.35E-03	2.37E-09	4.31E-09	
Hexachlorobenzene	5.12E-03	6.45E-03	6.58E-09	8.29E-09	
Indeno(1,2,3-cd)pyrene	1.16E-01	5.59E-01	1.49E-07	7.18E-07	
Phenanthrene	1.20E-01	6.25E-01	1.54E-07	8.02E-07	
Pyrene	2.09E-01	1.09E+00	2.69E-07	1.40E-06	
LPAH	2.04E-01	7.91E-01	2.62E-07	1.02E-06	
HPAH	1.24E+00	6.07E+00	1.60E-06	7.79E-06	
TOTAL PAHs	1.45E+00	6.86E+00	1.86E-06	8.81E-06	

TOTAL INTAKE

INTAKE = Sediment Intake + Food Intake

	TOTAL	TOTAL	
	Average	RME	
Chemical	Intake	Intake	
2-Methylnaphthalene	2.78E-08	3.22E-08	
4,4'-DDT	9.50E-10	5.32E-09	
Acenaphthylene	3.89E-08	9.15E-08	
Anthracene	6.74E-08	1.42E-07	
Benzo(a)anthracene	1.43E-07	9.47E-07	
Benzo(a)pyrene	2.20E-07	1.17E-06	
Benzo(b)fluoranthene	3.35E-07	1.65E-06	
Benzo(g,h,i)perylene	2.22E-07	1.20E-06	
Benzo(k)fluoranthene	1.97E-07	9.09E-07	
Chrysene	2.37E-07	4.68E-07	
Dibenz(a,h)anthracene	1.46E-07	6.87E-07	
Fluoranthene	3.79E-07	2.06E-06	
Fluorene	4.09E-08	8.15E-08	
gamma-Chlordane	2.77E-09	5.04E-09	
Hexachlorobenzene	1.94E-08	2.45E-08	
Indeno(1,2,3-cd)pyrene	2.42E-07	1.16E-06	
Phenanthrene	2.50E-07	1.30E-06	
Pyrene	4.36E-07	2.27E-06	
LPAH	4.25E-07	1.65E-06	
HPAH	2.59E-06	1.26E-05	
TOTAL PAHs	3.02E-06	1.43E-05	

# TABLE F-6 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT SPOTTED SEATROUT

FOOD INGESTION						
INTAKE = (Cf * IR * Dff *	* AUF)/BW					
Parameter	Definition			Value	Reference	
Intake	Intake of chemical (mg/kg-day)			calculated		
Cf	Fish concentration (mg/kg)			see FoodConc page	Э	
IR	Ingestion rate of of food (kg/day)			2.60E-02	same as black drum	
Dff	Dietary fraction of fish (unitless)			1.00E+00	TPWD website	
AUF	Area Use Factor			1	EPA, 1997	
BW	Body weight (kg)			1.00E+00	TPWD website	
		Average	RME	Avorago	RME	
Chemical		Average Fish	Fish	Average Intake	Intake	
onomica.		1 1011	. 1011	mano	mano	_
2-Methylnaphthalene		3.86E-02	4.46E-02	1.00E-03	1.16E-03	
4,4'-DDT		2.38E-04	1.33E-03	6.20E-06	3.47E-05	
Acenaphthylene		5.74E-03	1.35E-02	1.49E-04	3.51E-04	
Anthracene		1.69E-03	3.56E-03	4.39E-05	9.26E-05	
Benzo(a)anthracene		3.00E-02	1.99E-01	7.79E-04	5.17E-03	
Benzo(a)pyrene		4.36E-02	2.32E-01	1.13E-03	6.04E-03	
Benzo(b)fluoranthene		6.60E-02	3.24E-01	1.72E-03	8.43E-03	
Benzo(g,h,i)perylene		4.36E-02	2.36E-01	1.13E-03	6.13E-03	
Benzo(k)fluoranthene		3.89E-02	1.79E-01	1.01E-03	4.65E-03	
Chrysene		5.11E-02	1.01E-01	1.33E-03	2.63E-03	
Dibenz(a,h)anthracene		2.87E-02	1.35E-01	7.46E-04	3.52E-03	
Fluoranthene		7.46E-02	4.05E-01	1.94E-03	1.05E-02	
Fluorene		6.04E-03	1.20E-02	1.57E-04	3.13E-04	
gamma-Chlordane		4.70E-04	8.56E-04	1.22E-05	2.22E-05	
Hexachlorobenzene		1.42E-02	1.79E-02	3.69E-04	4.65E-04	
Indeno(1,2,3-cd)pyrene		4.77E-02	2.29E-01	1.24E-03	5.95E-03	
Phenanthrene		3.69E-02	1.92E-01	9.60E-04	4.99E-03	
Pyrene		8.58E-02	4.47E-01	2.23E-03	1.16E-02	
LPAH		6.29E-02	2.44E-01	1.64E-03	6.34E-03	
HPAH		5.10E-01	2.49E+00	1.33E-02	6.47E-02	
TOTAL PAHs		5.94E-01	2.81E+00	1.54E-02	7.31E-02	

## TABLE F-7 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT BLACK DRUM

SEDIMENT INGESTION								
INTAKE = (Sc * IR * AF * AUF) /	(BW)							
Parameter	D	efinition				Value	Reference	
Intake	lr	take of chemical (i	ng/kg-day)			calculated		
Sc	S	ed concentration (	mg/kg)			see data page		
IR	Ir	gestion rate of sec	l (kg/day)			2.60E-03	Neill, 1998*	
AF	C	hemical Bioavailab	oility in sediment (	unitless)		1	EPA, 1997	
AUF	A	rea Use Factor				1	EPA, 1997	
BW	В	ody weight (kg)				1.24E+00	PCO BERA	
			Average		RME	Average	RME	
Chemical			Sc		Sc	Intake	Intake	
2-Methylnaphthalene			8.30E-03		9.60E-03	1.74E-05	2.02E-05	
4,4'-DDT			4.11E-04		2.30E-03	8.63E-07	4.83E-06	
Acenaphthylene			1.16E-02		2.73E-02	2.44E-05	5.73E-05	
Anthracene			2.01E-02		4.24E-02	4.22E-05	8.90E-05	
Benzo(a)anthracene			4.54E-02		3.01E-01	9.53E-05	6.32E-04	
Benzo(a)pyrene			6.61E-02		3.52E-01	1.39E-04	7.39E-04	
Benzo(b)fluoranthene			1.00E-01		4.91E-01	2.10E-04	1.03E-03	
Benzo(g,h,i)perylene			6.61E-02		3.57E-01	1.39E-04	7.50E-04	
Benzo(k)fluoranthene			5.89E-02		2.71E-01	1.24E-04	5.69E-04	
Chrysene			7.74E-02		1.53E-01	1.63E-04	3.21E-04	
Dibenz(a,h)anthracene			4.35E-02		2.05E-01	9.14E-05	4.31E-04	
Fluoranthene			1.13E-01		6.14E-01	2.37E-04	1.29E-03	
Fluorene			1.22E-02		2.43E-02	2.56E-05	5.10E-05	
gamma-Chlordane			3.13E-04		5.70E-04	6.58E-07	1.20E-06	
Hexachlorobenzene			1.00E-02		1.26E-02	2.10E-05	2.65E-05	
Indeno(1,2,3-cd)pyrene			7.22E-02		3.47E-01	1.52E-04	7.29E-04	
Phenanthrene			7.46E-02		3.88E-01	1.57E-04	8.15E-04	
Pyrene			1.30E-01		6.78E-01	2.73E-04	1.42E-03	
LPAH			1.27E-01		4.92E-01	2.66E-04	1.03E-03	
HPAH			7.73E-01		3.77E+00	1.62E-03	7.92E-03	
TOTAL PAHs			8.99E-01		4.26E+00	1.89E-03	8.95E-03	
FOOD INGESTION  INTAKE = ((Cw * IR * Dfw * AUF	r)/(BW) + (Cc * IR * E	DFc * AUF) / (BW)	+ ((Cf * IR * DFf *	AUF)/(BW))				
INTAKE = ((Cw * IR * Dfw * AUF Parameter Intake Cw	D Ir V	refinition ntake of chemical (i	mg/kg-day) i (mg/kg)	AUF)/(BW))		Value calculated see FoodConc pag		
INTAKE = ((Cw * IR * Dfw * AUF  Parameter Intake Cw Cc	D Ir V	definition ntake of chemical (in form concentration trab concentration	mg/kg-day) (mg/kg) (mg/kg)	AUF)/(BW))		calculated see FoodConc pag see FoodConc pag	e e	
INTAKE = ((Cw * IR * Dfw * AUF  Parameter Intake Cw Cc Cf	D Ir W C F	efinition  atake of chemical (in form concentration are concentration is concentration).	mg/kg-day) i (mg/kg) (mg/kg) mg/kg)	AUF)/(BW))		calculated see FoodConc pag see FoodConc pag see FoodConc pag	e e e	
INTAKE = ((Cw * IR * Dfw * AUF Parameter Intake Cw Cc Cf IR	D Ir V C F Ir	definition  Intake of chemical (Interpretation of the concentration of t	mg/kg-day) (mg/kg) (mg/kg) mg/kg) ood (kg/day)	AUF)/(BW))		calculated see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02	e e e Neill, 1998	
INTAKE = ((Cw * IR * Dfw * AUF  Parameter Intake Cw Cc Cf IR Dfw	D Ir V C F Ir	refinition ntake of chemical (information concentration crab concentration is concentration (ingestion rate of of filetary fraction of w	mg/kg-day) (mg/kg) (mg/kg) mg/kg) ood (kg/day) oorms (unitless)	AUF)/(BW))		calculated see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01	e e Neill, 1998 prof. judgement	
INTAKE = ((Cw * IR * Dfw * AUF  Parameter  Intake Cw Cc Cf IIR Dfw Dfc	D Ir V C F Ir D	refinition ntake of chemical (if orm concentration crab concentration is concentration (negestion rate of of fietary fraction of concentration	mg/kg-day) (mg/kg) (mg/kg) mg/kg) ood (kg/day) orms (unitless) abs (unitless)	AUF)/(BW))		calculated see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01	e e e Neill, 1998 prof. judgement prof. judgement	
INTAKE = ((Cw * IR * Dfw * AUF  Parameter  Intake Cw Cc Cf IR Dfw Dfc Dff	D Ir V C F Ir D	tefinition take of chemical (i /orm concentration rab concentration ish concentration ( gestion rate of of f ietary fraction of or ietary fraction of of inition of or ietary fraction of file	mg/kg-day) (mg/kg) (mg/kg) mg/kg) ood (kg/day) orms (unitless) abs (unitless)	AUF)/(BW))		calculated see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 3.33E-01	e e Neill, 1998 prof. judgement prof. judgement prof. judgement	
INTAKE = ((Cw * IR * Dfw * AUF  Parameter  Intake Cw Cc Cf IIR Dfw Dfc	D Ir V C F Ir D D A	refinition ntake of chemical (if orm concentration crab concentration is concentration (negestion rate of of fietary fraction of concentration	mg/kg-day) (mg/kg) (mg/kg) mg/kg) ood (kg/day) orms (unitless) abs (unitless)	AUF)/(BW))		calculated see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01	e e e Neill, 1998 prof. judgement prof. judgement	
INTAKE = ((Cw * IR * Dfw * AUF Parameter Intake Cw Cc Cf IR Dfw Dfc Dff AUF BW	D Ir V C C F Ir D D D A B	refinition attake of chemical (i //orm concentration rab concentration ish concentration ( gestion rate of off ietary fraction of w ietary fraction of fix rea Use Factor ody weight (kg)	mg/kg-day) (mg/kg) (mg/kg) mg/kg) mg/kg) ood (kg/day) orms (unitless) abs (unitless) ch (unitless)	Average	RME	calculated see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1 1.24E+00	Neill, 1998 prof. judgement prof. judgement prof. judgement POF. judgement EPA, 1997 PCO BERA	
INTAKE = ((Cw * IR * Dfw * AUF  Parameter Intake Cw Cc Cf IIR Dfw Dfc Dff AUF BW  Chemical	D Ir V C C C F Ir D D D D D D D D D D D D D D D D D D	refinition stake of chemical (i form concentration rab concentration ish concentration ish concentration of of fietary fraction of w itetary fraction of fietary fraction of fietary fraction ody weight (kg)  RME Avera Worm Cra	mg/kg-day) (mg/kg) (mg/kg) mg/kg) mg/kg) mg/kg) oord (kg/day) orms (unitless) abs (unitless) sh (unitless)	Average Fish	Fish	calculated see FoodConc pag see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1.24E+00  Average Intake	e e Neill, 1998 Prof. judgement Prof. judgement Prof. judgement Prof. judgement PRA, 1997 PCO BERA  RME Intake	
INTAKE = ((Cw * IR * Dfw * AUF  Parameter Intake Cw Cc Cf IR Dfw Dfc Dff AUF BW  Chemical 2-Methylnaphthalene	D Ir W C C F Ir D D D A A B Average Worm	refinition Intake of chemical (interpretation of the concentration of th	mg/kg-day) (mg/kg) (mg/kg) mg/kg) mg/kg) ood (kg/day) oorms (unitless) abs (unitless) sh (unitless)	Average Fish 3.86E-02	Fish 4.46E-02	calculated see FoodConc pag see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1 1.24E+00  Average Intake 3.63E-04	Personal Profession of the Pro	
INTAKE = ((Cw * IR * Dfw * AUF Parameter Intake Cw Cc Cf IR Dfw Dfc Dff AUF BW  Chemical 2-Methylnaphthalene 4,4'-DDT	Average Worm  Average 3.29E-04	refinition  attake of chemical (i form concentration rab concentration) ish concentration (i gestion rate of off icterary fraction of wi ietary fraction of fixer rea Use Factor ody weight (kg)  RME Avera Worm Cra  1.55E-02 0.00E 1.84E-03 1.65f	mg/kg-day) (mg/kg) (mg/kg) mg/kg) mg/kg) ood (kg/day) orms (unitless) abs (unitless) ch (unitless) ch (unitless) ch (unitless)	Average Fish 3.86E-02 2.38E-04	Fish 4.46E-02 1.33E-03	calculated see FoodConc pag see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1 1.24E+00  Average Intake 3.63E-04 1.55E-05	Neill, 1998 prof. judgement prof. judgement prof. judgement EPA, 1997 PCO BERA  RME Intake  4.20E-04 8.69E-05	
INTAKE = ((Cw * IR * Dfw * AUF Parameter Intake Cw Cc Cf IR Dfw Dfc Dff AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene	Average Worm  1.34E-02 3.29E-04 1.87E-02	refinition attake of chemical (i //orm concentration rab concentration ish concentration (igestion rate of of fi ietary fraction of wietary fraction of fisera Use Factor ody weight (kg)  RME Avera Worm Cra  1.55E-02 0.00E 1.84E-03 1.65f 4.40E-02 0.00E	mg/kg-day) (mg/kg) (mg/kg) mg/kg) ood (kg/day) oots (unitless) abs (unitless) sh (unitless)  ##################################	Average Fish 3.86E-02 2.38E-04 5.74E-03	Fish 4.46E-02 1.33E-03 1.35E-02	calculated see FoodConc pag see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1 1.24E+00  Average Intake  3.63E-04 1.55E-05 1.71E-04	Personal Professional Professio	
INTAKE = ((Cw * IR * Dfw * AUF  Parameter Intake Cw Cc Cf IR Dfw Dfc Dff AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene	Average Worm  1.34E-02 3.29E-04 1.87E-02 3.24E-02	refinition stake of chemical (information concentration) trab concentration rate concentration (information) she concentration is concentration of the conce	mg/kg-day) (mg/kg) (mg/kg) mg/kg) mg/kg) mg/kg) mg/kg) morms (unitless) abs (unitless) sh (unitless)  age RME b Crab  4-00 0.00E+00 5-03 9.25E-03 4-00 0.00E+00 5-02 1.39E-01	Average Fish 3.86E-02 2.38E-04 5.74E-03 1.69E-03	4.46E-02 1.33E-03 1.35E-02 3.56E-03	calculated see FoodConc pag see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1 1.24E+00  Average Intake  3.63E-04 1.55E-05 1.71E-04 6.98E-04	Personal Process of State Process of Sta	
INTAKE = ((Cw * IR * Dfw * AUF  Parameter Intake Cw Cc Cf IR Dfw Dfc Dff AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene	Average Worm  1.34E-02 3.29E-04 1.87E-02 3.24E-02 6.58E-02	refinition Intake of chemical (information concentration or the concentration or the concentration or the concentration or the concentration or the concentration of the concentr	mg/kg-day) (mg/kg) (mg/kg) mg/kg) mg/kg) ood (kg/day) oorms (unitless) abs (unitless) sh (unitless) 400 0.00E+00 =-03 9.25E-03 +00 0.00E+00 =-02 1.39E-01 =-01 7.62E-01	Average Fish 3.86E-02 2.38E-04 5.74E-03 1.69E-03 3.00E-02	4.46E-02 1.33E-03 1.35E-02 3.56E-03 1.99E-01	calculated see FoodConc pag see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1.24E+00  Average Intake  3.63E-04 1.55E-05 1.71E-04 6.98E-04 1.47E-03	Personal Process of State Process of Sta	
INTAKE = ((Cw * IR * Dfw * AUF  Parameter Intake Cw Cc Cf IR Dfw Dfc Dff AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)pyrene	Average Worm  1.34E-02 3.29E-04 1.87E-02 3.24E-02 6.58E-02 1.05E-01	refinition stake of chemical (information concentration concentration is concentration is concentration of the con	mg/kg-day) ((mg/kg) (mg/kg) mg/kg) mg/kg) mg/kg) ood (kg/day) oorms (unitless) abs (unitless) sh (unitless) sh (unitless) sh (unitless) 1.39E-03 1.39E-01 1.62E-01	Average Fish  3.86E-02 2.38E-04 5.74E-03 1.69E-03 3.00E-02 4.36E-02	4.46E-02 1.33E-03 1.35E-02 3.56E-03 1.99E-01 2.32E-01	Calculated see FoodConc pag see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1.24E+00  Average Intake  3.63E-04 1.55E-05 1.71E-04 6.98E-04 1.47E-03 1.11E-03	RME Intake  4.20E-04 8.69E-05 4.02E-04 1.47E-03 9.77E-03 5.91E-03	
INTAKE = ((Cw * IR * Dfw * AUF Parameter Intake Cw Cc Cf IR Dfw Dfc Dff AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	Average Worm  1.34E-02 3.29E-04 1.87E-02 3.24E-02 6.58E-02 1.05E-01 1.61E-01	refinition stake of chemical (information concentration rab concentration rab concentration (information rab concentration rab concentration (information rab concentration) (information rate of of finite rate of fini	mg/kg-day) (mg/kg) (mg/kg) mg/kg) mg/kg) ood (kg/day) oorns (unitless) abs (unitless) ch (unitless)	Average Fish  3.86E-02 2.38E-04 5.74E-03 1.69E-03 3.00E-02 4.36E-02 6.60E-02	4.46E-02 1.33E-03 1.35E-02 3.56E-03 1.99E-01 2.32E-01 3.24E-01	Calculated see FoodConc pag see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1 1.24E+00  Average Intake  3.63E-04 1.55E-05 1.71E-04 6.98E-04 1.47E-03 1.11E-03 2.69E-03	Personal Property of the Control of	
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INTAKE = ((Cw * IR * Dfw * AUF  Parameter Intake Cw Cc Cf IR Dfw Dfc Dff AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(g,h)anthracene Fluoranthene Fluoranthene Fluorene gamma-Chlordane Hexachlorobenzene Indeno(1,2,3-cd)pyrene	Average Worm  1.34E-02 3.29E-04 1.87E-02 3.24E-02 6.58E-02 1.05E-01 1.61E-01 1.06E-01 9.48E-02 1.07E-01 7.00E-02 1.82E-01 1.96E-02 1.84E-03 5.12E-03 1.16E-01	refinition stake of chemical (information concentration concentration in the concentration is concentration in the concentration of the	mg/kg-day) (mg/kg) (mg/kg) mg/kg) mg/	Average Fish  3.86E-02 2.38E-04 5.74E-03 1.69E-03 3.00E-02 4.36E-02 6.60E-02 4.36E-02 5.11E-02 2.87E-02 7.46E-02 6.04E-03 4.70E-04 1.42E-02 4.77E-02	Fish  4.46E-02 1.33E-03 1.35E-02 3.56E-03 1.99E-01 2.32E-01 3.24E-01 1.79E-01 1.01E-01 1.35E-01 4.05E-01 1.20E-02 8.56E-04 1.79E-02 2.29E-01	Calculated see FoodConc pag see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1.24E+00  Average Intake  3.63E-04 1.55E-05 1.71E-04 6.98E-04 1.47E-03 1.11E-03 2.69E-03 1.05E-03 9.35E-04 1.80E-04 1.23E-02 1.80E-04 2.12E-05 4.85E-04 1.15E-03	RME Intake  4.20E-04 8.69E-05 4.02E-04 1.47E-03 9.77E-03 5.91E-03 1.32E-02 5.67E-03 4.30E-03 3.56E-03 3.25E-03 6.70E-02 3.88E-04 3.86E-05 6.11E-04 5.51E-03	
INTAKE = ((Cw * IR * Dfw * AUF  Parameter Intake Cw Cc Cf IR Dfw Dfc Dff AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Indeno(1,2,3-cd)pyrene Phenanthrene	Average Worm  1.34E-02 3.29E-04 1.87E-02 3.24E-02 6.58E-02 1.05E-01 1.61E-01 1.06E-01 1.06E-01 1.948E-02 1.07E-01 7.00E-02 1.82E-01 1.96E-02 1.84E-03 5.12E-03 1.16E-01 1.20E-01	refinition stake of chemical (information concentration concentration in the concentration in the concentration in the concentration of	mg/kg-day) ((mg/kg) (mg/kg) mg/kg) mg/kg) mg/kg) mg/kg) ood (kg/day) orms (unitless) sabs (uni	Average Fish  3.86E-02 2.38E-04 5.74E-03 3.00E-02 4.36E-02 6.60E-02 2.87E-02 2.87E-02 7.46E-02 6.04E-03 4.70E-04 1.42E-02 4.77E-02 3.69E-02	Fish  4.46E-02 1.33E-03 1.35E-02 3.56E-03 1.99E-01 2.32E-01 1.79E-01 1.01E-01 1.35E-01 4.05E-01 1.20E-02 8.56E-04 1.79E-02 2.29E-01 1.92E-01	calculated see FoodConc pag see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1 1.24E+00  Average Intake  3.63E-04 1.55E-05 1.71E-04 6.98E-04 1.47E-03 1.11E-03 2.69E-03 1.05E-03 9.35E-04 1.80E-03 6.91E-04 1.23E-02 1.80E-04 2.12E-05 4.85E-04 1.15E-03 1.10E-03 1.10E-03 1.10E-03 1.10E-03	RME Intake  4.20E-04 8.69E-05 4.02E-04 1.47E-03 9.77E-03 5.91E-03 1.32E-02 5.67E-03 4.30E-03 3.25E-03 6.70E-02 3.58E-04 3.86E-05 6.11E-04 5.51E-03 5.71E-03	
INTAKE = ((Cw * IR * Dfw * AUF Parameter Intake Cw Cc Cf IR Dfw Dfc Dff AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Fluorene gamma-Chlordane Hexachlorobenzene Indeno(1,2,3-cd)pyrene Phenanthrene Pyrene	Average Worm  1.34E-02 3.29E-04 1.87E-02 3.24E-02 6.58E-02 1.05E-01 1.06E-01 1.06E-01 7.00E-02 1.82E-01 1.96E-02 1.84E-03 5.12E-03 1.16E-01 1.20E-01 2.09E-01	refinition stake of chemical (information concentration or the concentration or the concentration or the concentration or the concentration or the concentration or the concentration of the concentra	mg/kg-day) (mg/kg) (mg/kg) mg/kg) mg/	Average Fish  3.86E-02 2.38E-04 5.74E-03 1.69E-03 3.00E-02 4.36E-02 6.60E-02 4.36E-02 5.11E-02 2.87E-02 7.46E-02 6.04E-03 4.70E-04 1.42E-02 4.77E-02 3.69E-02 8.58E-02	Fish  4.46E-02 1.33E-03 1.35E-02 3.56E-03 1.99E-01 2.32E-01 3.24E-01 1.79E-01 1.01E-01 1.35E-01 4.05E-01 1.20E-02 8.56E-04 1.79E-02 2.29E-01 4.47E-01	Calculated see FoodConc pag see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1 1.24E+00  Average Intake  3.63E-04 1.55E-05 1.71E-04 6.98E-04 1.47E-03 1.11E-03 2.69E-03 1.05E-03 9.35E-04 1.80E-03 6.91E-04 1.23E-02 1.80E-04 2.12E-05 4.85E-04 1.15E-03 1.10E-03 2.06E-03 1.10E-03 2.06E-03	RME Intake  4.20E-04 8.69E-05 4.02E-04 1.47E-03 9.77E-03 5.91E-03 1.32E-02 5.67E-03 4.30E-03 3.56E-03 3.56E-03 3.56E-03 3.58E-04 3.86E-05 6.11E-04 5.51E-03 5.71E-03 5.71E-03 1.08E-02	
INTAKE = ((Cw * IR * Dfw * AUF  Parameter Intake Cw Cc Cf IR Dfw Dfc Dff AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Indeno(1,2,3-cd)pyrene Phenanthrene	Average Worm  1.34E-02 3.29E-04 1.87E-02 3.24E-02 6.58E-02 1.05E-01 1.61E-01 1.06E-01 1.06E-01 1.948E-02 1.07E-01 7.00E-02 1.82E-01 1.96E-02 1.84E-03 5.12E-03 1.16E-01 1.20E-01	refinition stake of chemical (information concentration concentration in the concentration in the concentration in the concentration of	mg/kg-day) (mg/kg) (mg/kg) mg/kg) mg/	Average Fish  3.86E-02 2.38E-04 5.74E-03 3.00E-02 4.36E-02 6.60E-02 2.87E-02 2.87E-02 7.46E-02 6.04E-03 4.70E-04 1.42E-02 4.77E-02 3.69E-02	Fish  4.46E-02 1.33E-03 1.35E-02 3.56E-03 1.99E-01 2.32E-01 1.79E-01 1.01E-01 1.35E-01 4.05E-01 1.20E-02 8.56E-04 1.79E-02 2.29E-01 1.92E-01	calculated see FoodConc pag see FoodConc pag see FoodConc pag see FoodConc pag 2.60E-02 3.33E-01 3.33E-01 1 1.24E+00  Average Intake  3.63E-04 1.55E-05 1.71E-04 6.98E-04 1.47E-03 1.11E-03 2.69E-03 1.05E-03 9.35E-04 1.80E-03 6.91E-04 1.23E-02 1.80E-04 2.12E-05 4.85E-04 1.15E-03 1.10E-03 1.10E-03 1.10E-03 1.10E-03	RME Intake  4.20E-04 8.69E-05 4.02E-04 1.47E-03 9.77E-03 5.91E-03 1.32E-02 5.67E-03 4.30E-03 3.25E-03 6.70E-02 3.58E-04 3.86E-05 6.11E-04 5.51E-03 5.71E-03	

## TABLE F-7 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT BLACK DRUM

FOTAL PAHs	1.45E+00	6.86E+00 2.94E+00	1.39E+01	5.94E-01	2.81E+00	3.48E-02	1.65E-01
OTAL INTAKE							
NTAKE = Sediment Intake +	Food Intake						
						TOTAL	TOTAL
						Average	RME
Chemical						Intake	Intake
2-Methylnaphthalene						3.81E-04	4.40E-04
1,4'-DDT						1.64E-05	9.17E-05
Acenaphthylene						1.95E-04	4.59E-04
Anthracene						7.40E-04	1.56E-03
Benzo(a)anthracene						1.57E-03	1.04E-02
Benzo(a)pyrene						1.25E-03	6.65E-03
Benzo(b)fluoranthene						2.90E-03	1.42E-02
Benzo(g,h,i)perylene						1.19E-03	6.42E-03
Benzo(k)fluoranthene						1.06E-03	4.87E-03
Chrysene						1.97E-03	3.88E-03
Dibenz(a,h)anthracene						7.82E-04	3.68E-03
Fluoranthene						1.26E-02	6.83E-02
luorene						2.05E-04	4.09E-04
gamma-Chlordane						2.19E-05	3.98E-05
Hexachlorobenzene						5.06E-04	6.37E-04
ndeno(1,2,3-cd)pyrene						1.30E-03	6.24E-03
Phenanthrene						1.25E-03	6.53E-03
Pyrene						2.34E-03	1.22E-02
PAH						5.03E-03	1.95E-02
HPAH						3.16E-02	1.54E-01
TOTAL PAHs						3.67E-02	1.74E-01

Notes:
\* Sediment ingestion was assumed to be 10% of dietary intake

## TABLE F-8 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT SANDPIPER

OFDIMENT WIGGOTON					
SEDIMENT INGESTION					
NTAKE = (Sc * IR * AF * AUF)	/ (BW)				
Parameter	Definition			Value	Reference
ntake	Intake of chemical (mg/kg-d	ay)		calculated	
Sc	Sediment concentration (mg	ı/kg)		see data page	
R	Ingestion rate of sed (kg/day			2.10E-02	EPA, 1993
AF	Chemical Bioavailability in s	sediment (unitle	ess)	1	EPA, 1997
AUF	Area Use Factor			1	EPA, 1997
BW	Body weight (kg)			2.15E-01	Dunning, 1993
Chemical	A	verage Sc	RME Sc	Average Intake	RME Intake
Shemical		00	00	manc	make
2-Methylnaphthalene		.30E-03	9.60E-03	8.11E-04	9.38E-04
4,4'-DDT		.11E-04	2.30E-03	4.01E-05	2.25E-04
Acenaphthylene		.16E-02	2.73E-02	1.13E-03	2.67E-03
Anthracene		.01E-02	4.24E-02	1.96E-03	4.14E-03
Benzo(a)anthracene		.54E-02	3.01E-01	4.43E-03	2.94E-02
Benzo(a)pyrene		.61E-02	3.52E-01	6.46E-03	3.44E-02
Benzo(b)fluoranthene	1.	.00E-01	4.91E-01	9.77E-03	4.80E-02
Benzo(g,h,i)perylene		.61E-02	3.57E-01	6.46E-03	3.49E-02
Benzo(k)fluoranthene	5.	.89E-02	2.71E-01	5.75E-03	2.65E-02
Chrysene	7.	.74E-02	1.53E-01	7.56E-03	1.49E-02
Dibenz(a,h)anthracene	4.	.35E-02	2.05E-01	4.25E-03	2.00E-02
Fluoranthene	1.	.13E-01	6.14E-01	1.10E-02	6.00E-02
Fluorene		.22E-02	2.43E-02	1.19E-03	2.37E-03
gamma-Chlordane		.13E-04	5.70E-04	3.06E-05	5.57E-05
Hexachlorobenzene		.00E-02	1.26E-02	9.77E-04	1.23E-03
ndeno(1,2,3-cd)pyrene		.22E-02	3.47E-01	7.05E-03	3.39E-02
Phenanthrene		.46E-02	3.88E-01	7.29E-03	3.79E-02
	,				
	1				
Pyrene		.30E-01	6.78E-01	1.27E-02	6.62E-02
Pyrene LPAH	1.	.30E-01 .27E-01	6.78E-01 4.92E-01	1.27E-02 1.24E-02	6.62E-02 4.80E-02
Pyrene .PAH HPAH TOTAL PAHs	1. 7.	.30E-01	6.78E-01	1.27E-02	6.62E-02
Pyrene LPAH HPAH FOTAL PAHs	1. 7.	.30E-01 .27E-01 .73E-01 .99E-01	6.78E-01 4.92E-01 3.77E+00	1.27E-02 1.24E-02 7.55E-02	6.62E-02 4.80E-02 3.68E-01
Pyrene LPAH HPAH FOTAL PAHS FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF	1. 7. 8. )/(BW) + (Cw * IR * DFwa * AUF) / (B Definition	.30E-01 .27E-01 .73E-01 .99E-01	6.78E-01 4.92E-01 3.77E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02	6.62E-02 4.80E-02 3.68E-01
Pyrene LPAH HPAH FOTAL PAHS FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF	1. 7. 8. )/(BW) + (Cw * IR * DFwa * AUF) / (B	.30E-01 .27E-01 .73E-01 .99E-01	6.78E-01 4.92E-01 3.77E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01
Pyrene LPAH HPAH TOTAL PAHS FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake	1. 7. 8. )/(BW) + (Cw * IR * DFwa * AUF) / (B Definition	.30E-01 .27E-01 .73E-01 .99E-01	6.78E-01 4.92E-01 3.77E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01
Pyrene LPAH HPAH TOTAL PAHs  FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc	1. 7. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	.30E-01 .27E-01 .73E-01 .99E-01	6.78E-01 4.92E-01 3.77E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02 Value	6.62E-02 4.80E-02 3.68E-01 4.16E-01
Pyrene LPAH HPAH TOTAL PAHS  FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF  Parameter Intake Cc Cw	1. 7. 8.  )/(BW) + (Cw * IR * DFwa * AUF) / (B  Definition  Intake of chemical (mg/kg-d Crab concentration (mg/kg)	.30E-01 .27E-01 .73E-01 .99E-01 	6.78E-01 4.92E-01 3.77E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02 Value calculated see FoodConc page	6.62E-02 4.80E-02 3.68E-01 4.16E-01
Pyrene LPAH HPAH FOTAL PAHS  FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF  Parameter ntake Cc Cw R	1. 7. 8.  2)/(BW) + (Cw * IR * DFwa * AUF) / (B  Definition  Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg)	.30E-01 .27E-01 .73E-01 .99E-01 	6.78E-01 4.92E-01 3.77E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page	6.62E-02 4.80E-02 3.68E-01 4.16E-01
Pyrene LPAH HPAH FOTAL PAHS FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter ntake Cc Cw R Dfc	1. 7. 8.  2)/(BW) + (Cw * IR * DFwa * AUF) / (B  Definition  Intake of chemical (mg/kg-d  Crab concentration (mg/kg)  Worm concentration (mg/kg)  Ingestion rate of of food (kg/	.30E-01 .27E-01 .73E-01 .99E-01 W)	6.78E-01 4.92E-01 3.77E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01	6.62E-02 4.80E-02 3.68E-01 4.16E-01 Reference
Pyrene LPAH HPAH FOTAL PAHS FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cw R Dfc Dfw	1. 7. 8.  2)/(BW) + (Cw * IR * DFwa * AUF) / (B  Definition  Intake of chemical (mg/kg-d  Crab concentration (mg/kg)  Worm concentration (mg/kg  Ingestion rate of of food (kg)  Dietary fraction of crabs (un	.30E-01 .27E-01 .73E-01 .99E-01 W)	6.78E-01 4.92E-01 3.77E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02 Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01	6.62E-02 4.80E-02 3.68E-01 4.16E-01 Reference
Pyrene LPAH HPAH FOTAL PAHs  FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cw R Dfc Dfw AUF	1. 7. 8.  )/(BW) + (Cw * IR * DFwa * AUF) / (B  Definition  Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Ingestion rate of of food (kg/d Dietary fraction of crabs (under the content of the conte	.30E-01 .27E-01 .73E-01 .99E-01 W)	6.78E-01 4.92E-01 3.77E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02 Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement
Pyrene LPAH HPAH FOTAL PAHs  FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cw R Dfc Dfw AUF	1. 7. 8.  2.  2.  2.  3.  3.  3.  3.  3.  3.  3	30E-01 .27E-01 .73E-01 .99E-01 	6.78E-01 4.92E-01 3.77E+00 4.26E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02 Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993
Pyrene PAH IPAH TOTAL PAHs  FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cc W R Ofc Dfw UUF BW	1. 7. 8.  )/(BW) + (Cw * IR * DFwa * AUF) / (B  Definition  Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Ingestion rate of of food (kg) Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor	.30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless)	6.78E-01 4.92E-01 3.77E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02 Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01	6.62E-02 4.80E-02 3.68E-01 4.16E-01 Reference
Pyrene PAH PAH FOTAL PAHS  FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter  Intake Cc Cw R Dofc Jofw AUF BW  Chemical	1. 7. 8.  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg Ingestion rate of of food (kg) Dietary fraction of crabs (un Dietary fraction of worms (ur Area Use Factor Body weight (kg)  Average Crab	.30E-01 .27E-01 .73E-01 .99E-01 	6.78E-01 4.92E-01 3.77E+00 4.26E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 1 2.15E-01  Average Intake	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake
Pyrene Parameter Oral PAH PAH POTAL PAHS  FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cw R Ofc Ofc Ofw AUF BW  Chemical	1. 7. 8.  2.  2.  2.  3.  3.  3.  3.  3.  3.  3	.30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless)	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01  Average Intake 4.03E-03	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake 4.66E-03
Pyrene PAH HPAH TOTAL PAHS  FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cw R Ofc Dfw AUF BW  Chemical P-Methylnaphthalene I,4'-DDT	1. 7. 8.  2.  2.  2.  3.  3.  3.  3.  3.  3.  3	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wo .00E+00 1.3 9.25E-03 3.2	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 84E-02 1.55E-02 84E-02 1.84E-03	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01  Average Intake 4.03E-03 4.31E-04	6.62E-02 4.80E-02 3.68E-01 4.16E-01 Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03
Pyrene PAH IPAH IPAH TOTAL PAHs  FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cc Ww R IPAH IPAH IPAH IPAH IPAH IPAH IPAH IPAH	1. 7. 8.  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Ingestion rate of of food (kg Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor Body weight (kg)  Average Crab  0.00E+00 0 1.65E-03 9 0.00E+00 0	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wo .00E+00 1.3 3.25E-03 3.2 .00E+00 1.8	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 84E-02 1.55E-02 84E-02 1.84E-03 87E-02 4.40E-02	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01  Average Intake  4.03E-03 4.31E-04 5.63E-03	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02
Pyrene PAH HPAH FOTAL PAHs FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cc Dfw AUF BW  Chemical  P-Methylnaphthalene A,4'-DDT Accenaphthylene Anthracene	1. 7. 8.  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Ingestion rate of of food (kg/Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor Body weight (kg)  Average Crab  0.00E+00 0 1.65E-03 5 0.00E+00 0 6.57E-02	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wo .00E+00 1.3 .9.25E-03 3.2 .00E+00 1.8 1.39E-01 3.2	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 84E-02 1.55E-02 1.84E-03 17E-02 4.40E-02 24E-02 6.83E-02	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 1 2.15E-01  Average Intake 4.03E-03 4.31E-04 5.63E-03 2.30E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02
Pyrene PAH PAH PAH TOTAL PAHS  FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cbw R Ofc Offw AUF BW  Chemical  P-Methylnaphthalene A,4'-DDT Acenaphthylene Inthracene Benzo(a)anthracene	1.77.88  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg Ingestion rate of of food (kg/Dietary fraction of crabs (un Dietary fraction of worms (ur Area Use Factor Body weight (kg)  Average Crab  0.00E+00 0 1.65E-03 0.00E+00 0 6.57E-02 1.115E-01 7	.30E-01 .27E-01 .73E-01 .99E-01 .W) ay) ) (day) itless) nitless) .00E+00 .3.25E-03 .9.25E-03 .1.28 .00E+00 1.3.39E-01 3.29E-01 6.5	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 84E-02 1.55E-02 99E-04 1.84E-03 37E-02 4.40E-02 44E-02 6.83E-02 88E-02 4.36E-01	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 1 2.15E-01  Average Intake  4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01
Pyrene Pyrene PAH HPAH TOTAL PAHs  COOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Dc Dc Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr	1.7.8  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg Ingestion rate of of food (kg/Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor Body weight (kg)  Average Crab  0.00E+00 0 1.65E-03 9 0.00E+00 0 6.57E-02 1 1.15E-01 7 9.92E-03 5	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wo .00E+00 1.3 3.25E-03 3.2 .00E+00 1.8 1.39E-01 3.2 7.62E-01 6.5 5.28E-02 1.0	6.78E-01 4.92E-01 3.77E+00 4.26E+	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 1 2.15E-01  Average Intake 4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.37E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01
Pyrene PAH HPAH TOTAL PAHS  FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cbw R Ofc Dfw AUF BW  Chemical P-Methylnaphthalene I,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	1.77.88.  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Ingestion rate of of food (kg/d Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor Body weight (kg)  Average Crab  0.00E+00 0 1.65E-03 9 0.00E+00 0 6.57E-02 11.15E-01 7 9.92E-03 5 1.57E-01 7	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wc .00E+00 1.3 9.25E-03 3.2 .00E+00 1.8 1.39E-01 6.5 5.28E-02 1.0 7.71E-01 1.6	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 84E-02 1.55E-02 92E-04 1.84E-03 87E-02 4.40E-02 6.83E-02 4.36E-01 5.60E-01 5.60E-01 7.91E-01	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01  Average Intake  4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.37E-02 8.01E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01 3.93E-01
Pyrene PAH HPAH TOTAL PAHS FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Dw R Pofc Dfw AUF BW  Chemical  P-Methylnaphthalene A,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	1. 7. 8.  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor Body weight (kg)  Average Crab  0.00E+00 0.657E-02 1.15E-01 9.92E-03 1.57E-01 0.00E+00 0	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wo .00E+00 1.3 3.25E-03 3.2 .00E+00 1.8 1.39E-01 3.2 .62E-01 6.5 5.28E-02 1.0 7.71E-01 1.6 .00E+00 1.0	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 84E-02 1.55E-02 89E-04 1.84E-03 87E-02 4.40E-02 84E-02 6.83E-02 84E-02 6.83E-02 85E-01 5.60E-01 5.60E-01 5.75E-01	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01  Average Intake  4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.37E-02 8.01E-02 3.21E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01 3.93E-01 1.73E-01
Pyrene PAH HPAH FOTAL PAHs FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter ntake Cc Cw R Pofc Dfw AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene	1. 7. 8.  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor Body weight (kg)  Average Crab  0.00E+00 0.6.57E-02 1.15E-01 9.92E-03 1.57E-01 0.00E+00 0	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wo .00E+00 1.3 3.25E-03 3.2 .00E+00 1.8 1.39E-01 3.2 .62E-01 6.5 5.28E-02 1.0 7.71E-01 1.6 .00E+00 1.0	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 84E-02 1.55E-02 92E-04 1.84E-03 87E-02 4.40E-02 6.83E-02 4.36E-01 5.60E-01 5.60E-01 7.91E-01	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01  Average Intake  4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.37E-02 8.01E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01 3.93E-01
Pyrene LPAH LPAH LPAH LPAH FOTAL PAHS FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cw R Dfc Dfw AUF BW BW AUF BW BW BW BW BW BW BW BW BW BW BW BW BW	1.7.8  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Ingestion rate of of food (kg/Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor Body weight (kg)  Average Crab  0.00E+00 0 1.65E-03 9 0.00E+00 1 9.92E-03 5 1.57E-01 7 0.00E+00 0 0.00E+00 0	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wo .00E+00 1.3 .00E+00 1.8 1.39E-01 3.2 .00E+00 1.8 1.39E-01 6.5 .28E-02 1.0 .7.71E-01 1.6 .00E+00 9.4	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 84E-02 1.55E-02 89E-04 1.84E-03 87E-02 4.40E-02 84E-02 6.83E-02 84E-02 6.83E-02 85E-01 5.60E-01 5.60E-01 5.75E-01	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01  Average Intake  4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.37E-02 8.01E-02 3.21E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01 3.93E-01 1.73E-01
Pyrene PAH IPAH IPAH IPAH IPAH IPAH IPAH IPAH	1.7.8  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor Body weight (kg)  Average Crab  O.00E+00 0 1.65E-03 0 0.00E+00 0 6.57E-02 1 1.15E-01 7 9.92E-03 5 1.57E-01 0.00E+00 0 0.00E+00 0 9.98E-02 1	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wo .00E+00 1.3 .00E+00 1.8 .00E+00 1.8 .025E-03 3.2 .00E+00 1.8 .03E-01 6.5 .028E-02 1.0 .7.71E-01 1.0 .00E+00 9.4 1.97E-01 1.0	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.36E-01 5.75E-01 5.75E-01 5.75E-01 6.83E-02 4.36E-01 5.75E-01 6.85E-01 5.75E-01 6.86E-01 5.75E-01 6.86E-01 5.75E-01 6.86E-01 5.75E-01 6.86E-01 5.75E-01 6.86E-01 5.75E-01 6.86E-01 5.75E-01 6.86E-01 5.75E-01 6.86E-01 5.75E-01 6.86E-01 5.75E-01 6.86E-01 5.75E-01 6.86E-01 5.75E-01	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01  Average Intake  4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.37E-02 8.01E-02 3.21E-02 2.86E-02 5.23E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01 3.93E-01 1.73E-01 1.32E-01 1.03E-01
Pyrene PAH HPAH HPAH FOTAL PAHS FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter ntake Cc Cc R Pofc Dfw AUF BW AUF BW AUF BW Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(g,h,i)perylene Benzo(g,h,i)perylene Benzo(g,h)nuthracene Chrysene Dibenz(a,h)anthracene	1.7.8  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Ingestion rate of of food (kg/Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor Body weight (kg)  Average Crab  Average Crab  0.00E+00 0 1.65E-03 9 0.00E+00 1 9.92E-03 5 1.57E-01 7 0.00E+00 0 9.98E-02 9 0.00E+00 0	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wo .00E+00 1.3 3.25E-03 3.2 .00E+00 1.8 1.39E-01 3.2 .00E+00 1.8 1.5.28E-02 1.0 7.71E-01 1.6 .00E+00 1.0 .00E+00 1.0 .00E+00 1.0 .00E+00 7.0	6.78E-01 4.92E-01 3.77E+00 4.26E+	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02 8.78E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 1 2.15E-01  Average Intake 4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.37E-02 8.01E-02 2.86E-02 5.23E-02 2.11E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01 3.93E-01 1.73E-01 1.32E-01 1.03E-01 9.95E-02
Pyrene PAH HPAH HPAH FOTAL PAHS FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cbw R Dfc Dfw AUF BW  Chemical  2-Methylnaphthalene 4,4-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b,h)perylene Benzo(b,h)perylene Benzo(b,h)perylene Benzo(b,h)perylene Benzo(b)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene	1. 7. 8.  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Ingestion rate of of food (kg Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor Body weight (kg)  Average Crab  Average Crab  0.00E+00 0 1.65E-03 9 0.00E+00 0 6.57E-02 1 1.15E-01 7 9.92E-03 5 1.57E-01 7 0.00E+00 0 9.98E-02 1 0.00E+00 0 1.51E+00 8	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wc .00E+00 1.3 .9.25E-03 3.2 .00E+00 1.8 1.39E-01 6.5 .5.28E-02 1.0 .7.71E-01 1.6 .00E+00 9.4 .1.97E-01 1.0 .00E+00 7.0 .1.97E-01 1.8	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+01 5.60E-01 5.60E-01 5.60E-01 5.75E-01 6.75E-	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01  Average Intake  4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.37E-02 8.01E-02 3.21E-02 2.86E-02 5.23E-02 2.11E-02 3.58E-01	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01 3.93E-01 1.73E-01 1.32E-01 1.03E-01 9.95E-02 1.94E+00
Pyrene PAH HPAH HPAH FOTAL PAHs FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cw R Pofc Dfw AUF BW  Chemical  P-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b,h)perylene Benzo(b,h)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene	1. 7. 8.  Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Ingestion rate of of food (kg/Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor Body weight (kg)  Average Crab  Average Crab  0.00E+00 0 1.65E-03 9.00E+00 0 6.57E-02 11.15E-01 7.9.92E-03 9.15FE-01 7.000E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.1.51E+00 8 0.00E+00 0 0.1.51E+00 8 0.00E+00 0	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) (itless) nitless) RME Ave Crab Wo .00E+00 1.3 3.25E-03 3.2 .00E+00 1.8 1.39E-01 3.2 .62E-01 6.5 .28E-02 1.0 .7.71E-01 1.6 .00E+00 9.4 1.97E-01 1.0 .00E+00 9.4 1.97E-01 1.0 .00E+00 1.9 .00E+00 1.9 .00E+00 1.9	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+01 5.60E-01 5.60E-01 5.60E-01 5.75E-01 6.8E-02 4.36E-01 5.75E-01 6.8E-02 4.36E-01 5.75E-01 6.8E-02 4.36E-01 5.75E-01 6.8E-02 4.36E-01 5.75E-01 8.8E-02 4.36E-01 6.8E-02 8.30E-01 9.8E-02 8.30E-01 9.8E-02 9.8E-02 9.8E-02 9.8E-02 9.8E-02 9.8E-02 9.8E-02 9.8E-01	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01  Average Intake  4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.37E-02 8.01E-02 3.21E-02 2.86E-02 5.23E-02 2.11E-02 3.58E-01 5.92E-03	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01 3.93E-01 1.32E-01 1.03E-01 1.03E-01 9.95E-02 1.94E+00 1.18E-02
Pyrene PAH HPAH FOTAL PAHS FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cbw R Ofc Offw AUF BW  Chemical  PMethylnaphthalene 1,4'-DDT Acenaphthylene Anthracene Benzo(a) anthracene Benzo(a) pyrene Benzo(b) fluoranthene Benzo(b) fluoranthene Benzo(b,fluoranthene Chrysene Dibenz(a,h) anthracene Fluoranthene Fluorene gamma-Chlordane	1.   7.   8.	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wo .00E+00 1.3 .00E+00 1.8 1.39E-01 3.2 .00E+00 1.8 1.39E-01 6.5 .28E-02 1.0 .7.71E-01 1.0 .00E+00 9.4 1.97E-01 1.0 .00E+00 7.0 .19E+00 1.8 .00E+00 1.9 1.31E-03 1.8	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+01 5.60E-01 5.60E-01 5.60E-01 5.75E-01 5.75E-01 6.86E-02 6.86E-02 6.86E-03 6.86E-	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01  Average Intake 4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.37E-02 8.01E-02 2.86E-02 5.23E-02 2.11E-02 3.58E-01 5.92E-03 7.00E-04	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01 3.93E-01 1.73E-01 1.32E-01 1.03E-01 9.95E-02 1.94E+00 1.18E-02 1.27E-03
Pyrene LPAH HPAH HTOTAL PAHS FOOD INGESTION  NTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cc W R Dfc Dfw AUF BBW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Fluoranthene Fluorantene Jamma-Chlordane Hexachlorobenzene	1.   7.   8.	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) .00E+00 .00E+00 1.3 .25E-03 .025E-03 .025E-01 .00E+00 1.8 1.39E-01 .025E-01 .05.28E-02 .00E+00 .00	6.78E-01 4.92E-01 3.77E+00 4.26E+	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 1.08E-01 1.2.15E-01  Average Intake 4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.27E-02 8.01E-02 2.86E-02 5.23E-02 2.11E-02 3.58E-01 5.92E-03 7.00E-04 1.16E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01 3.93E-01 1.73E-01 1.32E-01 1.03E-01 9.95E-02 1.94E+00 1.18E-02 1.27E-03 1.46E-02
Pyrene LPAH HPAH HPAH TOTAL PAHS  FOOD INGESTION  INTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cc W IR Dfc Dfw AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluorene gamma-Chlordane Hexachlorobenzene Indeno(1,2,3-cd)pyrene	1. 7. 8.   Definition Intake of chemical (mg/kg-d Crab concentration (mg/kg) Worm concentration (mg/kg) Ingestion rate of of food (kg/ Dietary fraction of crabs (un Dietary fraction of worms (un Area Use Factor Body weight (kg)  Average Crab  Average Crab  0.00E+00 0 0 1.65E-03 9 0.00E+00 0 0 6.57E-02 1 1.15E-01 7 9.92E-03 1 1.57E-01 7 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00  30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) itless) nitless) RME Ave Crab Wc .00E+00 1.3 3.25E-03 3.2 .00E+00 1.8 1.39E-01 6.0 7.71E-01 1.6 .00E+00 9.4 1.97E-01 1.6 .00E+00 1.9 1.97E-01 1.8 .00E+00 1.9 1.97E-01 1.8 .00E+00 1.9 1.31E-03 1.8 .00E+00 1.9 1.31E-03 1.8 .30E-02 5.1 .00E+00 1.9	6.78E-01 4.92E-01 3.77E+00 4.26E+00 4.26E+00 4.26E+00 4.26E+00 84E-02 1.55E-02 29E-04 1.84E-03 87E-02 4.40E-02 6.83E-02 24E-02 6.83E-02 4.36E-01 5.60E-01 5.60E-01 5.75E-01 88E-02 4.36E-01 7.91E-01 81E-01 7.91E-01 81E-02 3.30E-01 82E-01 9.89E-01	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02 8.78E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 6.00E-01 1 2.15E-01  Average Intake 4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.27E-02 8.01E-02 3.21E-02 2.86E-02 5.23E-02 2.11E-02 3.58E-01 5.92E-03 7.00E-04 1.16E-02 3.50E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01 3.93E-01 1.73E-01 1.32E-01 1.03E-01 1.995E-02 1.94E+00 1.18E-02 1.27E-03 1.46E-02 1.68E-01	
Pyrene LPAH HPAH HTOTAL PAHS FOOD INGESTION  INTAKE = ((Cc * IR * Dfc * AUF Parameter Intake Cc Cc MR Dfc Dfw AUF BW  Chemical  2-Methylnaphthalene 4,4'-DDT Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Chrysene Dibenz(a,h)anthracene Fluorene gamma-Chlordane Hexachlorobenzene	1.   7.   8.	30E-01 .27E-01 .73E-01 .99E-01 W) ay) ) (day) (itless) nitless) RME Ave Crab Wc .00E+00 1.3 .3.25E-03 3.2 .00E+00 1.8 1.39E-01 6.5 .5.28E-02 1.0 .7.71E-01 1.6 .00E+00 9.4 .1.97E-01 1.0 .00E+00 1.9 .1.31E-03 1.8 .6.30E-02 5.1 .6.30E-02 1.1 .00E+00 1.1	6.78E-01 4.92E-01 3.77E+00 4.26E+	1.27E-02 1.24E-02 7.55E-02 8.78E-02 8.78E-02 8.78E-02  Value calculated see FoodConc page see FoodConc page 1.08E-01 4.00E-01 1.08E-01 1.2.15E-01  Average Intake 4.03E-03 4.31E-04 5.63E-03 2.30E-02 4.29E-02 3.27E-02 8.01E-02 2.86E-02 5.23E-02 2.11E-02 3.58E-01 5.92E-03 7.00E-04 1.16E-02	6.62E-02 4.80E-02 3.68E-01 4.16E-01  Reference  EPA, 1993 prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  4.66E-03 2.41E-03 1.32E-02 4.84E-02 2.85E-01 1.79E-01 3.93E-01 1.73E-01 1.32E-01 1.03E-01 9.95E-02 1.94E+00 1.18E-02 1.27E-03 1.46E-02

## TABLE F-8 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT SANDPIPER

LPAH	4.15E-01 1.	.61E+00	2.04E-01	7.91E-01	1.45E-01	5.62E-01	
HPAH	2.53E+00 1.	.23E+01	1.24E+00	6.07E+00	8.83E-01	4.31E+00	
TOTAL PAHs	2.94E+00 1.	.39E+01	1.45E+00	6.86E+00	1.03E+00	4.87E+00	

TOTAL INTAKE

INTAKE = Sediment Intake + Food Intake

	TOTAL	TOTAL
	Average	RME
Chemical	Intake	Intake
2-Methylnaphthalene	4.84E-03	5.60E-03
4,4'-DDT	4.71E-04	2.64E-03
Acenaphthylene	6.76E-03	1.59E-02
Anthracene	2.49E-02	5.26E-02
Benzo(a)anthracene	4.74E-02	3.14E-01
Benzo(a)pyrene	4.01E-02	2.14E-01
Benzo(b)fluoranthene	8.98E-02	4.41E-01
Benzo(g,h,i)perylene	3.85E-02	2.08E-01
Benzo(k)fluoranthene	3.43E-02	1.58E-01
Chrysene	5.98E-02	1.18E-01
Dibenz(a,h)anthracene	2.54E-02	1.19E-01
Fluoranthene	3.69E-01	2.00E+00
Fluorene	7.11E-03	1.42E-02
gamma-Chlordane	7.30E-04	1.33E-03
Hexachlorobenzene	1.26E-02	1.58E-02
Indeno(1,2,3-cd)pyrene	4.21E-02	2.02E-01
Phenanthrene	4.35E-02	2.26E-01
Pyrene	7.58E-02	3.95E-01
LPAH	1.57E-01	6.10E-01
HPAH	9.58E-01	4.67E+00
TOTAL PAHs	1.12E+00	5.28E+00

## TABLE F-9 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT GREEN HERON

FOOD INGESTION							
INTAKE = ((Cf * IR * Dff	* AUF)/(BW) + (Cc * IR * D	Fc * AUF) /	(BW))				
Parameter	Definition			Value	Reference		
Intake	Intake of chemical (mg/kg	g-day)			calculated		
Cf	Fish concentration (mg/k	g)			see FoodConc page		
Cc	Crab concentration (mg/k	(g)			see FoodConc page		
IR	Ingestion rate of of food (				1.13E-01	EPA, 1993	
DFf	Dietary fraction of fish (ur	nitless)			7.50E-01	Kent, 1986	
DFc	Dietary fraction of crab (u	ınitless)			2.50E-01	Kent, 1986	Į.
AUF	Area Use Factor				1	EPA, 1997	
BW	Body weight (kg)				3.75E-01	Dunning, 1993	
	Average	RME	Average	RME	Average	RME	
Chemical	Fish	Fish	Crab	Crab	Intake	Intake	
Chomical	1 1011	1 1011	Olab	Crab	mano	mano	
2-Methylnaphthalene	3.86E-02	4.46E-02	0.00E+00	0.00E+00	8.68E-03	1.00E-02	
4,4'-DDT	2.38E-04	1.33E-03	1.65E-03	9.25E-03	1.78E-04	9.94E-04	
Acenaphthylene	5.74E-03	1.35E-02	0.00E+00	0.00E+00	1.29E-03	3.04E-03	
Anthracene	1.69E-03	3.56E-03	6.57E-02	1.39E-01	5.31E-03	1.12E-02	
Benzo(a)anthracene	3.00E-02	1.99E-01	1.15E-01	7.62E-01	1.54E-02	1.02E-01	
Benzo(a)pyrene	4.36E-02	2.32E-01	9.92E-03	5.28E-02	1.06E-02	5.62E-02	
Benzo(b)fluoranthene	6.60E-02	3.24E-01	1.57E-01	7.71E-01	2.66E-02	1.31E-01	
Benzo(g,h,i)perylene	4.36E-02	2.36E-01	0.00E+00	0.00E+00	9.82E-03	5.30E-02	
Benzo(k)fluoranthene	3.89E-02	1.79E-01	0.00E+00	0.00E+00	8.75E-03	4.02E-02	
Chrysene	5.11E-02	1.01E-01	9.98E-02	1.97E-01	1.90E-02	3.75E-02	
Dibenz(a,h)anthracene	2.87E-02	1.35E-01	0.00E+00	0.00E+00	6.46E-03	3.04E-02	
Fluoranthene	7.46E-02	4.05E-01	1.51E+00	8.19E+00	1.30E-01	7.05E-01	
Fluorene	6.04E-03	1.20E-02	0.00E+00	0.00E+00	1.36E-03	2.71E-03	
gamma-Chlordane	4.70E-04	8.56E-04	7.20E-04	1.31E-03	1.60E-04	2.91E-04	
Hexachlorobenzene	1.42E-02	1.79E-02	5.00E-02	6.30E-02	6.95E-03	8.75E-03	
Indeno(1,2,3-cd)pyrene	4.77E-02	2.29E-01	0.00E+00	0.00E+00	1.07E-02	5.15E-02	
Phenanthrene	3.69E-02	1.92E-01	0.00E+00	0.00E+00	8.31E-03	4.32E-02	
Pyrene	8.58E-02	4.47E-01	0.00E+00	0.00E+00	1.93E-02	1.01E-01	
LPAH	6.29E-02	2.44E-01	4.15E-01	1.61E+00	4.52E-02	1.75E-01	
HPAH	5.10E-01	2.49E+00	2.53E+00	1.23E+01	3.04E-01	1.48E+00	
TOTAL PAHs	5.94E-01	2.81E+00	2.94E+00	1.39E+01	3.54E-01	1.68E+00	
1							

#### TABLE F-10 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT FIDDLER CRAB

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default

Intake TRV see Intake

	Average	RME	TRV	Average	RME	
Chemical	Intake	Intake	Fiddler Crab	EHQ	EHQ	
2-Methylnaphthalene	2.78E-08	3.22E-08				
4.4'-DDT	9.50E-10	5.32E-09	1.47E-01	6.46E-09	3.62E-08	
Acenaphthylene	3.89E-08	9.15E-08		0.102 00	0.022 00	
Anthracene	6.74E-08	1.42E-07				
Benzo(a)anthracene	1.43E-07	9.47E-07				
Benzo(a)pyrene	2.20E-07	1.17E-06				
Benzo(b)fluoranthene	3.35E-07	1.65E-06				
Benzo(g,h,i)perylene	2.22E-07	1.20E-06				
Benzo(k)fluoranthene	1.97E-07	9.09E-07				
Chrysene	2.37E-07	4.68E-07				
Dibenz(a,h)anthracene	1.46E-07	6.87E-07				
Fluoranthene	3.79E-07	2.06E-06				
Fluorene	4.09E-08	8.15E-08				
gamma-Chlordane	2.77E-09	5.04E-09	4.60E+00	6.02E-10	1.10E-09	
Hexachlorobenzene	1.94E-08	2.45E-08	2.25E-01	8.63E-08	1.09E-07	
ndeno(1,2,3-cd)pyrene	2.42E-07	1.16E-06				
Phenanthrene	2.50E-07	1.30E-06				
Pyrene	4.36E-07	2.27E-06				
PAH	4.25E-07	1.65E-06	6.56E+01	6.48E-09	2.51E-08	
HPAH	2.59E-06	1.26E-05	9.31E+00	2.78E-07	1.36E-06	
ΓΟΤΑL PAHs	3.02E-06	1.43E-05				

### TABLE F-11 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT **BLACK DRUM**

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Intake TRV Default see Intake

Chemical	Average Intake	RME Intake	TRV Black Drum	Average EHQ	RME EHQ
2-Methylnaphthalene	3.81E-04	4.40E-04			
4,4'-DDT	1.64E-05	9.17E-05	1.47E-01	1.11E-04	6.24E-04
Acenaphthylene	1.95E-04	4.59E-04			
Anthracene	7.40E-04	1.56E-03			
Benzo(a)anthracene	1.57E-03	1.04E-02			
Benzo(a)pyrene	1.25E-03	6.65E-03			
Benzo(b)fluoranthene	2.90E-03	1.42E-02			
Benzo(g,h,i)perylene	1.19E-03	6.42E-03			
Benzo(k)fluoranthene	1.06E-03	4.87E-03			
Chrysene	1.97E-03	3.88E-03			
Dibenz(a,h)anthracene	7.82E-04	3.68E-03			
Fluoranthene	1.26E-02	6.83E-02			
Fluorene	2.05E-04	4.09E-04			
gamma-Chlordane	2.19E-05	3.98E-05	4.60E+00	4.75E-06	8.65E-06
Hexachlorobenzene	5.06E-04	6.37E-04	2.25E-01	2.25E-03	2.83E-03
Indeno(1,2,3-cd)pyrene	1.30E-03	6.24E-03			
Phenanthrene	1.25E-03	6.53E-03			
Pyrene	2.34E-03	1.22E-02			
LPAH	5.03E-03	1.95E-02	6.56E+01	7.67E-05	2.97E-04
НРАН	3.16E-02	1.54E-01	9.31E+00	3.39E-03	1.65E-02
TOTAL PAHs	3.67E-02	1.74E-01			

#### TABLE F-12 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT SPOTTED SEATROUT

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default

Intake TRV see Intake

Chemical	Average Intake	RME Intake	TRV Spotted Seatrout	Average EHQ	RME EHQ
2-Methylnaphthalene	1.00E-03	1.16E-03			
4,4'-DDT	6.20E-06	3.47E-05	1.47E-01	4.22E-05	2.36E-04
Acenaphthylene	1.49E-04	3.51E-04			
Anthracene	4.39E-05	9.26E-05			
Benzo(a)anthracene	7.79E-04	5.17E-03			
Benzo(a)pyrene	1.13E-03	6.04E-03			
Benzo(b)fluoranthene	1.72E-03	8.43E-03			
Benzo(g,h,i)perylene	1.13E-03	6.13E-03			
Benzo(k)fluoranthene	1.01E-03	4.65E-03			
Chrysene	1.33E-03	2.63E-03			
Dibenz(a,h)anthracene	7.46E-04	3.52E-03			
Fluoranthene	1.94E-03	1.05E-02			
Fluorene	1.57E-04	3.13E-04			
gamma-Chlordane	1.22E-05	2.22E-05	4.60E+00	2.66E-06	4.84E-06
Hexachlorobenzene	3.69E-04	4.65E-04	2.25E-01	1.64E-03	2.07E-03
Indeno(1,2,3-cd)pyrene	1.24E-03	5.95E-03			
Phenanthrene	9.60E-04	4.99E-03			
Pyrene	2.23E-03	1.16E-02			
LPAH	1.64E-03	6.34E-03	6.56E+01	2.49E-05	9.66E-05
HPAH	1.33E-02	6.47E-02	9.31E+00	1.42E-03	6.95E-03
TOTAL PAHs	1.54E-02	7.31E-02			

### TABLE F-13 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT SANDPIPER

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Default

Parameter Intake TRV see Intake

Chemical	Average Intake	RME Intake	TRV Sandpiper	Average EHQ	RME EHQ	
2-Methylnaphthalene	4.84E-03	5.60E-03				
4,4'-DDT	4.71E-04	2.64E-03	2.27E-01	2.08E-03	1.16E-02	
Acenaphthylene	6.76E-03	1.59E-02	2.27 = 01	2.00L-03	1.102-02	
Anthracene	2.49E-02	5.26E-02				
Benzo(a)anthracene	4.74E-02	3.14E-01				
Benzo(a)pyrene	4.01E-02	2.14E-01				
Benzo(b)fluoranthene	8.98E-02	4.41E-01				
Benzo(g,h,i)perylene	3.85E-02	2.08E-01				
Benzo(k)fluoranthene	3.43E-02	1.58E-01				
Chrysene	5.98E-02	1.18E-01				
Dibenz(a,h)anthracene	2.54E-02	1.19E-01				
Fluoranthene	3.69E-01	2.00E+00				
Fluorene	7.11E-03	1.42E-02				
gamma-Chlordane	7.30E-04	1.33E-03	2.14E+00	3.41E-04	6.22E-04	
Hexachlorobenzene	1.26E-02	1.58E-02	2.25E-01	5.59E-02	7.04E-02	
Indeno(1,2,3-cd)pyrene	4.21E-02	2.02E-01	2.202 0 .	0.002 02		
Phenanthrene	4.35E-02	2.26E-01				
Pyrene	7.58E-02	3.95E-01				
LPAH	1.57E-01	6.10E-01	6.56E+01	2.40E-03	9.29E-03	
HPAH	9.58E-01	4.67E+00	9.31E+00	1.03E-01	5.02E-01	
TOTAL PAHs	1.12E+00	5.28E+00	3.3.2100		0.022 01	

#### TABLE F-14 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT **GREEN HERON**

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Default

Parameter Intake TRV see Intake

Chemical	Average Intake	RME Intake	TRV Green Heron	Average EHQ	RME EHQ
2-Methylnaphthalene	8.68E-03	1.00E-02			
4,4'-DDT	1.78E-04	9.94E-04	2.27E-01	7.82E-04	4.38E-03
Acenaphthylene	1.29E-03	3.04E-03			
Anthracene	5.31E-03	1.12E-02			
Benzo(a)anthracene	1.54E-02	1.02E-01			
Benzo(a)pyrene	1.06E-02	5.62E-02			
Benzo(b)fluoranthene	2.66E-02	1.31E-01			
Benzo(g,h,i)perylene	9.82E-03	5.30E-02			
Benzo(k)fluoranthene	8.75E-03	4.02E-02			
Chrysene	1.90E-02	3.75E-02			
Dibenz(a,h)anthracene	6.46E-03	3.04E-02			
Fluoranthene	1.30E-01	7.05E-01			
Fluorene	1.36E-03	2.71E-03			
gamma-Chlordane	1.60E-04	2.91E-04	2.14E+00	7.46E-05	1.36E-04
Hexachlorobenzene	6.95E-03	8.75E-03	2.25E-01	3.09E-02	3.89E-02
Indeno(1,2,3-cd)pyrene	1.07E-02	5.15E-02			
Phenanthrene	8.31E-03	4.32E-02			
Pyrene	1.93E-02	1.01E-01			
LPAH	4.52E-02	1.75E-01	6.56E+01	6.90E-04	2.67E-03
HPAH	3.04E-01	1.48E+00	9.31E+00	3.27E-02	1.59E-01
TOTAL PAHs	3.54E-01	1.68E+00			

TABLE F-15 AVERAGE CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg)

### Cfood = Csed x BSAF (or BSAF or BCF with food chain multiplier)

where:

Cfood = Chemical Concentration in food (mg/kg dry) Csed = BSAF BCF = Chemical Concentration in soil (mg/kg dry) Biota to Sediment Accumulation Factor (unitless)

Bioconcentration Factor (unitless)

Compound	Average Csed	Sediment to Worm	Worm F	Reference	Sediment to Crab	Crab	Reference	Sediment to Fish	Fish	Reference
	(mg/kg)	BSAF	Concentration		BSAF	Concentration		BSAF	Concentration	
2-Methylnaphthalene	8.30E-03	3 1.61E+00	1.34E-02 E	PA, 1999		0.00E+00	)	4.65E+00	3.86E-02 I	Brunson et al. (1998)
4,4'-DDT	4.11E-04	8.00E-01	3.29E-04 B	SAF DB	4.02E+00	) 1.65E-03	BSAF DB	5.80E-01	2.38E-04 \	NSDOH, 1995
Acenaphthylene	1.16E-02	2 1.61E+00	1.87E-02 E	PA, 1999		0.00E+00	)	0.495	5.74E-03 \	NSDOH, 1995
Anthracene	2.01E-02	2 1.61E+00	3.24E-02 E	PA, 1999	3.27E+00	6.57E-02	BSAF DB	8.40E-02	1.69E-03 \	NSDOH, 1995
Benzo(a)anthracene	4.54E-02	1.45E+00	6.58E-02 E	PA, 1999	2.53E+00	) 1.15E-01	BSAF DB	6.60E-01	3.00E-02 \	WSDOH, 1995
Benzo(a)pyrene	6.61E-02	1.59E+00	1.05E-01 E	PA, 1999	1.50E-01	9.92E-03	BSAF DB	6.60E-01	4.36E-02 \	NSDOH, 1995
Benzo(b)fluoranthene	1.00E-01	1.61E+00	1.61E-01 E	PA, 1999	1.57E+00	) 1.57E-01	BSAF DB	6.60E-01	6.60E-02 \	NSDOH, 1995
Benzo(g,h,i)perylene	6.61E-02	1.61E+00	1.06E-01 E	PA, 1999		0.00E+00	)	6.60E-01	4.36E-02 \	NSDOH, 1995
Benzo(k)fluoranthene	5.89E-02	1.61E+00	9.48E-02 E	PA, 1999		0.00E+00	)	6.60E-01	3.89E-02 \	NSDOH, 1995
Chrysene	7.74E-02	1.38E+00	1.07E-01 E	PA, 1999	1.29E+00	9.98E-02	BSAF DB	6.60E-01	5.11E-02 \	NSDOH, 1995
Dibenz(a,h)anthracene	4.35E-02	1.61E+00	7.00E-02 E	PA, 1999		0.00E+00	)	6.60E-01	2.87E-02 \	NSDOH, 1995
Fluoranthene	1.13E-01	1.61E+00	1.82E-01 E	PA, 1999	1.33E+01	1.51E+00	BSAF DB	6.60E-01	7.46E-02 \	WSDOH, 1995
Fluorene	1.22E-02	1.61E+00	1.96E-02 E	PA, 1999		0.00E+00	)	4.95E-01	6.04E-03 \	NSDOH, 1995
gamma-Chlordane	3.13E-04	5.88E+00	1.84E-03 B	SAF DB	2.30E+00	7.20E-04	BSAF DB	1.50E+00	4.70E-04 F	BSAF DB
Hexachlorobenzene	1.00E-02	5.12E-01	5.12E-03 B	SAF DB	5.00E+00	5.00E-02	BSAF DB	1.42E+00	1.42E-02 I	Max value from Calcasieu RI
Indeno(1,2,3-cd)pyrene	7.22E-02	1.61E+00	1.16E-01 E	PA, 1999		0.00E+00	)	6.60E-01	4.77E-02 \	NSDOH, 1995
Phenanthrene	7.46E-02	1.61E+00	1.20E-01 E	PA, 1999		0.00E+00	)	4.95E-01	3.69E-02 \	NSDOH, 1995
Pyrene	1.30E-01	1.61E+00	2.09E-01 E	PA, 1999		0.00E+00	)	6.60E-01	8.58E-02 \	WSDOH, 1995
LPAH	1.27E-01	1.61E+00	2.04E-01 E	PA, 1999	3.27E+00	4.15E-01	max PAH	4.96E-01	6.29E-02 \	NSDOH, 1995
НРАН	7.73E-01	1.61E+00	1.24E+00 E	PA, 1999	3.27E+00	2.53E+00	max PAH	6.60E-01		WSDOH, 1995
TOTAL PAHs	8.99E-01	1.61E+00	1.45E+00 E	PA, 1999	3.27E+00	2.94E+00	max PAH	6.60E-01		WSDOH, 1995

#### Notes:

<sup>\*</sup> For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

TABLE F-16
RME CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg)

### Cfood = Csed x BSAF (or BSAF or BCF with food chain multiplier)

where:

Cfood = Chemical Concentration in food (mg/kg dry)
Csed = Chemical Concentration in soil (mg/kg dry)
BSAF Biota to Sediment Accumulation Factor (unitless)

BCF = Bioconcentration Factor (unitless)

Compound	RME Csed	Sediment to Worm	Worm Reference	Sediment to Crab	Crab Reference	Sediment to Fish	Fish Reference
	(mg/kg)	BSAF	Concentration	BSAF	Concentration	BSAF	Concentration
2-Methylnaphthalene	9.60E-03	1.61E+00	1.55E-02 EPA, 1999		0.00E+00	4.65E+00	4.46E-02 Brunson et al. (1998)
4,4'-DDT	2.30E-03		1.84E-03 BSAF DB	4.02E+00		5.80E-01	1.33E-03 WSDOH, 1995
Acenaphthylene	2.73E-02	1.61E+00	4.40E-02 EPA, 1999		0.00E+00	0.495	1.35E-02 WSDOH, 1995
Anthracene	4.24E-02		6.83E-02 EPA, 1999	3.27E+00	1.39E-01 BSAF DB	8.40E-02	3.56E-03 WSDOH, 1995
Benzo(a)anthracene	3.01E-01	1.45E+00	4.36E-01 EPA, 1999	2.53E+00	7.62E-01 BSAF DB	6.60E-01	1.99E-01 WSDOH, 1995
Benzo(a)pyrene	3.52E-01	1.59E+00	5.60E-01 EPA, 1999	1.50E-01	5.28E-02 BSAF DB	6.60E-01	2.32E-01 WSDOH, 1995
Benzo(b)fluoranthene	4.91E-01	1.61E+00	7.91E-01 EPA, 1999	1.57E+00	7.71E-01 BSAF DB	6.60E-01	3.24E-01 WSDOH, 1995
Benzo(g,h,i)perylene	3.57E-01	1.61E+00	5.75E-01 EPA, 1999		0.00E+00	6.60E-01	2.36E-01 WSDOH, 1995
Benzo(k)fluoranthene	2.71E-01	1.61E+00	4.36E-01 EPA, 1999		0.00E+00	6.60E-01	1.79E-01 WSDOH, 1995
Chrysene	1.53E-01	1.38E+00	2.11E-01 EPA, 1999	1.29E+00	1.97E-01 BSAF DB	6.60E-01	1.01E-01 WSDOH, 1995
Dibenz(a,h)anthracene	2.05E-01	1.61E+00	3.30E-01 EPA, 1999		0.00E+00	6.60E-01	1.35E-01 WSDOH, 1995
Fluoranthene	6.14E-01	1.61E+00	9.89E-01 EPA, 1999	1.33E+01	8.19E+00 BSAF DB	6.60E-01	4.05E-01 WSDOH, 1995
Fluorene	2.43E-02	1.61E+00	3.91E-02 EPA, 1999		0.00E+00	4.95E-01	1.20E-02 WSDOH, 1995
gamma-Chlordane	5.70E-04	5.88E+00	3.35E-03 BSAF DB	2.30E+00	1.31E-03 BSAF DB	1.50E+00	8.56E-04 BSAF DB
Hexachlorobenzene	1.26E-02	5.12E-01	6.45E-03 BSAF DB	5.00E+00	6.30E-02 BSAF DB	1.42E+00	1.79E-02 Max value from Calcasieu F
Indeno(1,2,3-cd)pyrene	3.47E-01	1.61E+00	5.59E-01 EPA, 1999		0.00E+00	6.60E-01	2.29E-01 WSDOH, 1995
Phenanthrene	3.88E-01	1.61E+00	6.25E-01 EPA, 1999		0.00E+00	4.95E-01	1.92E-01 WSDOH, 1995
Pyrene	6.78E-01	1.61E+00	1.09E+00 EPA, 1999		0.00E+00	6.60E-01	4.47E-01 WSDOH, 1995
LPAH	4.92E-01	1.61E+00	7.91E-01 EPA, 1999	3.27E+00	1.61E+00 max PAH	4.96E-01	2.44E-01 WSDOH, 1995
HPAH	3.77E+00	1.61E+00	6.07E+00 EPA, 1999	3.27E+00	1.23E+01 max PAH	6.60E-01	2.49E+00 WSDOH, 1995
TOTAL PAHs	4.26E+00	1.61E+00	6.86E+00 EPA, 1999	3.27E+00	1.39E+01 max PAH	6.60E-01	2.81E+00 WSDOH, 1995

#### Notes

<sup>\*</sup> For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

# TABLE G-1 EXPOSURE POINT CONCENTATION (mg/kg) INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND DATA

			Statistic
Parameter	Average	95% UCL	Used
4,4'-DDT	1.56E-04	3.82E-04	95% Chebyshev
Arsenic	5.81E+00	7.74E+00	95% Student's-t
Benzo(b)fluoranthene	8.70E-03	2.41E-02	95% Chebyshev
Copper	8.14E+00	1.13E+01	95% Student's-t
Hexachlorobenzene	0.0178	0.0187	95% Student's-t
Mercury	1.76E-02	2.73E-02	95% Approx. Gamma
Nickel	1.49E+01	1.99E+01	95% Student's-t
Zinc	3.60E+01	4.45E+01	95% Student's-t
LPAH			
HPAH	8.70E-03	2.41E-02	
TOTAL PAHs	0.0087	0.0241	

### TABLE G-2 TOXICITY REFERENCE VALUES

	Caritalla						1								1	1		
	Capitella capitata			Fiddler Crab			Black Drum			Spotted seatrout			Sandpiper			Green heron		
Parameter	(mg/kg)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments
															Highest bounded NOAEL			Highest bounded NOAEL
															for growth and			for growth and
															reproduction lower than			reproduction lower than the
															the lowest bounded LOAEL for reproduction.			lowest bounded LOAEL for
4.4'-DDT	0.001	SQUIRT	ERL	0 147	EDA 2007a	mammalian TRV for soil	0.147	EDA 2007a	mammalian TRV for soil	0.147	EPA. 2007a	mammalian TRV for soil	0.227	EPA. 2007a	growth, and survival	0.227	EPA, 2007a	reproduction, growth, and survival
Arsenic	8.2	SQUIRT	ERL	0.147	LFA, 2007a	mammanan my ior son	0.147	LI A, 2007a	mammanan nv ioi soii	0.147	LI A, 2007a	mammanan my ioi son	0.221	LFA, 2007a	growth, and survival	0.221	LFA, 2007a	Suivivai
Benzo(b)fluoranthene	1.8	SQUIRT	AET															
															Highest bounded NOAEL			Highest bounded NOAEL
															for growth and			for growth and
															reproduction lower than			reproduction lower than the
															the lowest bounded			lowest bounded LOAEL for
			=5.			" <b>T</b> D\(( "						" <b>T</b> D\(( "			LOAEL for reproduction,			reproduction, growth, and
Copper	0.006	SQUIRT	ERL AET	5.6 0.225	EPA, 2007c	mammalian TRV for soil avian TRV for soil		EPA, 2007c	mammalian TRV for soil	5.6 0.225	EPA, 2007c	mammalian TRV for soil avian TRV for soil	4.05	EPA, 2007c	growth, and survival avian TRV for soil	4.05 0.225	EPA, 2007c EPA, 1999	survival avian TRV for soil
Hexachlorobenzene	0.006	SQUIRT	AET	0.225	EPA, 1999	avian 1 RV for soil	0.225	EPA, 1999	avian TRV for Soil	0.225	EPA, 1999	avian 1 RV for soil	0.225	EPA, 1999	Acute (5 days) LOAEL for		EPA, 1999	Acute (5 days) LOAEL for
															mortality in coturnix quail			mortality in coturnix quail
															(dose 325 with uncertainty	,		(dose 325 with uncertainty
Mercury	0.15	SQUIRT	ERL	1.01	EPA. 1999	mammalian TRV for soil	1.01	EPA. 1999	mammalian TRV for soil	1.01	EPA. 1999	mammalian TRV for soil	3.25	EPA. 1999	factor of 0.01)	3.25	EPA. 1999	factor of 0.01)
					,		-	,		-	,			,	Highest bounded NOAEL		,	Highest bounded NOAEL
															for growth and			for growth and
															reproduction lower than			reproduction lower than the
															the lowest bounded			lowest bounded LOAEL for
			ERL			" <b>T</b> D\(( "						" <b>T</b> D\(( "	0 = 4		LOAEL for reproduction,			reproduction, growth, and
Nickel	20.9	SQUIRT	ERL	1.7	EPA, 2007d	mammalian TRV for soil	1.7	EPA, 2007d	mammalian TRV for soil	1.7	EPA, 2007d	mammalian TRV for soil	6.71	EPA, 2007d	growth, and survival Geometric mean of	6.71	EPA, 2007d	survival Geometric mean of
															NOAEL values within the			NOAEL values within the
															reproductive and growth			reproductive and growth
Zinc	150	SQUIRT	ERL	75.4	EPA. 2007e	mammalian TRV for soil	75.4	EPA. 2007e	mammalian TRV for soil	75.4	EPA. 2007e	mammalian TRV for soil	66.1	EPA. 2007e	effect groups	66.1	EPA, 2007e	effect groups
				1	,			,			,			,			,	3
LPAH	0.552	SQUIRT	ERL	65.6	EPA, 2007b		65.6	EPA, 2007b	mammalian TRV for soil	65.6	EPA, 2007b	mammalian TRV for soil	65.6	EPA, 2007b	mammalian TRV for soil	65.6	EPA, 2007b	
						midpoint between NOAEL			midpoint between			midpoint between NOAEL			midpoint between NOAEL			midpoint between NOAEL
						and LOAEL for soil			NOAEL and LOAEL for			and LOAEL for soil			and LOAEL for soil			and LOAEL for soil
HPAH	1.7	SQUIRT	ERL	9.31	EPA, 2007b	mammalian TRV	9.31	EPA, 2007b	soil mammalian TRV	9.31	EPA, 2007b	mammalian TRV	9.31	EPA, 2007b	mammalian TRV	9.31	EPA, 2007b	mammalian TRV
TOTAL PAHs	4.022	SQUIRT	ERL														ļ	

Notes: ERL -- Effects Range-Low AET -- Apparent Effects Threshold TEL -- Threshold Effects Level

EPA, 2007a -- DDT
EPA, 2007b -- PAHs
EPA, 2007c -- Copper
EPA, 2007d -- Nickel
EPA, 2007f -- Selenium
EPA, 2005a -- Antimony
EPA, 2005b -- Cadmium
EPA, 2005c -- Chromium
EPA, 2005c -- Chromium
EPA, 2005c -- Lead
EPA, 2005e -- Dieldrin
EPA, 2005g -- Barium

# TABLE G-3 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND CAPITELLA CAPITATA

Ecological Hazard	Quotient = Sc/TRV	
Parameter	Definition	Default
Sc	Soil Concentration (mg/kg)	see below
TRV	Toxicity Reference Value (mg/kg)	see TRV summary page

Chemical	Average Sc	RME Sc	TRV capitella capitata	Average EHQ	RME EHQ
4,4'-DDT	1.56E-04	3.82E-04	1.00E-03	1.56E-01	3.82E-01
Arsenic	5.81E+00	7.74E+00	8.20E+00	7.09E-01	9.44E-01
Benzo(b)fluoranthene	8.70E-03	2.41E-02	1.80E+00	4.83E-03	1.34E-02
Copper	8.14E+00	1.13E+01	3.40E+01	2.39E-01	3.34E-01
Hexachlorobenzene	1.78E-02	1.87E-02	6.00E-03	2.97E+00	3.12E+00
Mercury	1.76E-02	2.73E-02	1.50E-01	1.17E-01	1.82E-01
Nickel	1.49E+01	1.99E+01	2.09E+01	7.13E-01	9.54E-01
Zinc	3.60E+01	4.45E+01	1.50E+02	2.40E-01	2.97E-01
LPAH	0.00E+00	0.00E+00	5.52E-01	0.00E+00	0.00E+00
HPAH	8.70E-03	2.41E-02	1.70E+00	5.12E-03	1.42E-02
TOTAL PAHs	8.70E-03	2.41E-02	4.02E+00	2.16E-03	5.99E-03

# TABLE G-4 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND FIDDLER CRAB

SEDIMENT INGESTIG	NC					
INTAKE = (Sc * IR * A	F * AUF) / (BW)					
Parameter	Definition				Value	Reference
Intake	Intake of chemical (mg/kg-day)	\			alculated	Reference
Sc	Sed concentration (mg/kg)	'			data page	
IR .	Ingestion rate of sed (kg/day)				.16E-08	Cammen, 1979
AF	Chemical Bioavailability in sed	iment (unitless)		'	1	EPA, 1997
AUF	Area Use Factor	intent (diniess)			1	EPA, 1997
BW	Body weight (kg)			9	.00E-03	based on width/length eq.
<b>5</b> 11	Body Wolghi (Ng)				.002 00	bacca on mannengar eq.
	Averaç	је	RME		verage	RME
Chemical	Sc		Sc		Intake	Intake
4,4'-DDT	1.56E-	04	3.82E-04	2	.00E-10	4.90E-10
Arsenic	5.81E+		7.74E+00		.47E-06	9.94E-06
Benzo(b)fluoranthene	8.70E-	03	2.41E-02	1	.12E-08	3.10E-08
Copper	8.14E+		1.13E+01		.05E-05	1.46E-05
Hexachlorobenzene	1.78E-		1.87E-02		.29E-08	2.40E-08
Mercury	1.76E-	02	2.73E-02	2	.26E-08	3.51E-08
Nickel	1.49E+		1.99E+01		.92E-05	2.56E-05
Zinc	3.60E+		4.45E+01		.63E-05	5.72E-05
LPAH	0.00E+		0.00E+00		00E+00	0.00E+00
HPAH	8.70E-		2.41E-02		.12E-08	3.10E-08
TOTAL PAHs	8.70E-	03	2.41E-02	1	.12E-08	3.10E-08
FOOD INGESTION						
INTAKE = (Ci * IR * D	Fi * AUF) / (BW)					
,						
Parameter	Definition				Value	Reference
Intake	Intake of chemical (mg/kg-day)				alculated	
Ci	Invertebrate concentration (mg	0,			odConc pa	-
IR	Ingestion rate of of food (kg/da	• •			.16E-08	Cammen, 1979
Dfi	Dietary fraction of invertebrates	s (unitiess)		1.	.00E+00	TPWD website
AUF BW	Area Use Factor Body weight (kg)			9	1 .00E-03	EPA, 1997 ased on width/length eq.
					.002 00	
		Average	RME	А	verage	RME
Chemical		•	Invertebrate		Intake	Intake
4,4'-DDT		1.24E-04	3.05E-04	1	.60E-10	3.92E-10
Arsenic		5.23E+00	6.97E+00		.72E-06	8.95E-06
Benzo(b)fluoranthene		1.40E-02	3.88E-02		.80E-08	4.98E-08
Copper		2.44E+00	3.40E+00		.14E-06	4.37E-06
Hexachlorobenzene		9.11E-03	9.57E-03		.17E-08	1.23E-08
Mercury		7.04E-03	1.09E-02		.04E-09	1.40E-08
Nickel		1.34E+01	1.79E+01		.72E-05	2.31E-05
Zinc		2.05E+01	2.54E+01		.64E-05	3.26E-05
LPAH		0.00E+00	0.00E+00		.00E+00	0.00E+00
HPAH		1.40E-02	3.88E-02		.80E-08	4.98E-08
TOTAL PAHs		1.40E-02	3.88E-02		.80E-08	4.98E-08
TOTAL INTAKE						
INTAKE = Sediment I	ntake + Food Intake					
					TOTAL	TOTAL
Chamical				A	verage	RME
Chemical					Intake	Intake
4,4'-DDT				3	.60E-10	8.82E-10

# TABLE G-4 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND FIDDLER CRAB

Arsenic	1.42E-05	1.89E-05
Benzo(b)fluoranthene	2.92E-08	8.08E-08
Copper	1.36E-05	1.89E-05
Hexachlorobenzene	3.46E-08	3.63E-08
Mercury	3.16E-08	4.91E-08
Nickel	3.64E-05	4.87E-05
Zinc	7.27E-05	8.98E-05
LPAH	0.00E+00	0.00E+00
HPAH	2.92E-08	8.08E-08
TOTAL PAHs	2.92E-08	8.08E-08

# TABLE G-5 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND SPOTTED SEATROUT

FOOD INGESTION					
INTAKE = (Cf * IR *	Dff * AUF)/BW				
Parameter	Definition			Value	Reference
Intake	Intake of chemical (mg/kg-day)			calculated	
Cf	Fish concentration (mg/kg)			see FoodConc pag	je
IR	Ingestion rate of of food (kg/day)			2.60E-02	same as black drum
Dff	Dietary fraction of fish (unitless)			1.00E+00	TPWD website
AUF	Area Use Factor			1	EPA, 1997
BW	Body weight (kg)			1.00E+00	TPWD website
		Average	RME	Average	RME
Chemical		Fish	Fish	Intake	Intake
4,4'-DDT		9.02E-05	2.21E-04	2.35E-06	5.76E-06
Arsenic		9.42E-01	1.25E+00	2.45E-02	3.26E-02
Benzo(b)fluoranthen	ne	5.74E-03	1.59E-02	1.49E-04	4.14E-04
Copper		8.14E+00	1.13E+01	2.12E-01	2.95E-01
Hexachlorobenzene		2.53E-02	2.66E-02	6.57E-04	6.90E-04
Mercury		5.68E-02	8.82E-02	1.48E-03	2.29E-03
Nickel		8.05E-01	1.08E+00	2.09E-02	2.80E-02
Zinc		4.11E+01	5.08E+01	1.07E+00	1.32E+00
LPAH		0.00E+00	0.00E+00	0.00E+00	0.00E+00
		5.74E-03	1.59E-02	1.49E-04	4.14E-04
HPAH		3.74E-03	1.036-02	1.736-07	7.17∟-07

### TABLE G-6 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND BLACK DRUM

SEDIMENT INGESTION								
INTAKE = (Sc * IR * AF * AUF) /	(BW)							
Darameter		Onfinitie -					V-I	Deference
Parameter Intake		Definition ntake of chem	nical (ma/ka	-day)			Value calculated	Reference
Sc		Sed concentra					see data page	
IR		ngestion rate					see data page 2.60E-03	Neill, 1998*
AF		Chemical Bioa			initless)		1	EPA, 1997
AUF		Area Use Fact		. 200			1	EPA, 1997
BW		Body weight (F					1.24E+00	PCO BERA
Chemical				Average Sc		RME Sc	Average Intake	RME Intake
Crieffical				30		30	ilitake	ilitare
4,4'-DDT				1.56E-04		3.82E-04	3.27E-07	8.02E-07
Arsenic				5.81E+00		7.74E+00	1.22E-02	1.63E-02
Benzo(b)fluoranthene				8.70E-03		2.41E-02	1.83E-05	5.06E-05
Copper				8.14E+00		1.13E+01	1.71E-02	2.38E-02
Hexachlorobenzene				1.78E-02		1.87E-02	3.74E-05	3.93E-05
Mercury				1.76E-02		2.73E-02	3.70E-05	5.73E-05
Nickel				1.49E+01		1.99E+01	3.13E-02	4.19E-02
Zinc				3.60E+01		4.45E+01	7.57E-02	9.35E-02
LPAH				0.00E+00		0.00E+00	0.00E+00	0.00E+00
HPAH				8.70E-03		2.41E-02	1.83E-05	5.06E-05
TOTAL PAHs				8.70E-03		2.41E-02	1.83E-05	5.06E-05
FOOD INGESTION								
INTAKE = ((Cw * IR * Dfw * AUF	F)/(BW) + (Cc * IR * D	Fc * AUF) / (E	BW) + ((Cf *	IR * DFf *AL	JF)/(BW))			
Parameter	г	Definition					Value	Reference
Intake		ntake of chem	nical (ma/ka	-day)			calculated	
Cw		Norm concent					see FoodConc page	
Cc		Crab concentr					see FoodConc page	
Cf		ish concentra					see FoodConc page	
IR		ngestion rate						Neill, 1998
Dfw		Dietary fraction					3.33E-01	prof. judgement
Dfc		Dietary fraction					3.33E-01	prof. judgement
Dff		Dietary fraction					3.33E-01	prof. judgement
AUF		Area Úse Fact		•			1	EPA, 1997
BW		Body weight (I					1.24E+00	PCO BERA
Chemical	Average Worm	RME Worm	Average Crab	RME Crab	Average Fish	RME Fish	Average Intake	RME Intake
4,4'-DDT	1.24E-04	3.05E-04		1.53E-03	9.02E-05	2.21E-04	5.87E-06	1.44E-05
Arsenic	5.23E+00	6.97E+00			9.42E-01	1.25E+00	4.32E-02	5.75E-02
Benzo(b)fluoranthene	1.40E-02	3.88E-02		3.78E-02 0.00E+00	5.74E-03	1.59E-02	2.34E-04 7.40E-02	6.47E-04
Copper	2.44E+00 9.11E-03	3.40E+00	8.90E-02		8.14E+00 2.53E-02	1.13E+01 2.66E-02	7.40E-02 8.63E-04	1.03E-01
Hexachlorobenzene Mercuny	9.11E-03 7.04E-03			9.35E-02 0.00E+00	5.68E-02	2.66E-02 8.82E-02	8.63E-04 4.47E-04	9.07E-04 6.93E-04
Mercury Nickel	7.04E-03 1.34E+01	1.09E-02 1.79E+01			5.68E-02 8.05E-01	8.82E-02 1.08E+00	4.47E-04 9.95E-02	6.93E-04 1.33E-01
Zinc	2.05E+01			0.00E+00 0.00E+00	4.11E+01	5.08E+00	9.95E-02 4.31E-01	1.33E-01 5.32E-01
LPAH	0.00E+00			0.00E+00 0.00E+00	4.11E+01 0.00E+00	0.00E+00	4.31E-01 0.00E+00	0.00E+00
HPAH	1.40E-02	3.88E-02		7.88E-02	5.74E-03	1.59E-02	3.37E-04	9.34E-04
TOTAL PAHs	1.40E-02	3.88E-02		7.88E-02	5.74E-03 5.74E-03	1.59E-02	3.37E-04 3.37E-04	9.34E-04
TOTAL INTAKE								
INTAKE = Sediment Intake + Fo	ood Intake							
							TOTAL	TOTAL
Chemical							Average Intake	RME Intake
4,4'-DDT							6.20E-06	1.52E-05
Arsenic							5.54E-02	7.37E-02
Benzo(b)fluoranthene							2.52E-04	6.98E-04
Copper							9.11E-02	1.27E-01
Hexachlorobenzene							9.00E-04	9.46E-04
Mercury							4.84E-04	7.50E-04
Nickel							1.31E-01	1.75E-01
Zinc							5.07E-01	6.26E-01
LPAH							0.00E+00	0.00E+00
HPAH							3.55E-04	9.84E-04
TOTAL PAHs							3.55E-04	9.84E-04
Notes:								

Notes:
\* Sediment ingestion was assumed to be 10% of dietary intake

### TABLE G-7 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND SANDPIPER

Parameter		<u></u>				
Parameter	SEDIMENT INGESTION					
Intake   Intake of chemical (mpkg-day)   see delate gaps   See   Sediment concentration (mpkg)   see delate gaps   See   Sediment concentration (mpkg)   see delate gaps   See   Sediment concentration (mpkg)   see delate gaps   See   Sediment gaps   See   Sediment gaps   See   Sediment gaps   See   Sediment gaps   See   Sediment gaps   See   Sediment gaps   See   Sediment gaps   S	INTAKE = (Sc * IR * AF * AUF) / (BW)					
Second	Parameter					Reference
R	Intake					
AF Chemical Bouvalability in sediment (unifices)  AUF Area Uso Factor Body weight (kg)  Average Body weight (kg)  Average Chemical  Averag		( 0 0)				
Average			(i4l = = = \			
Body weight (kg)   2,15E-01   Dunning, 1993			(unitiess)			
Average						
A4-DDT		Body Weight (kg)			2.102 01	Durining, 1000
Assentic 5.8 181-00 7.74E-00 5.88E-01 7.50E-01 Bearapti) Numerian	Chemical					
Berazo	4,4'-DDT	1.56E-04		3.82E-04	1.52E-05	3.73E-05
Copper	Arsenic					
Hexacathordomename						
Mercury						
1.49E+01   1.99E+01   1.99E+01   1.46E+00   1.36E+00						
2.15E-01						
LPAH	Zinc					
TOTAL PAHS						
Parameter	HPAH					
NTAKE = ((Cc " IR " Dic " AUF)/(BW) + (Cw " IR " DFwa " AUF) / (BW)	TOTAL PAHs	8.70E-03		2.41E-02	8.50E-04	2.35E-03
Parameter	FOOD INGESTION					
Intake   Intake of chemical (mg/kg-day)						
Company   Comp	Parameter					Reference
Note						
R						
Dic	IR				, ,	EPA. 1993
Dietary fraction of worms (unitless)	Dfc					
Body weight (kg)   RME	Dfw				6.00E-01	
Average   RME	AUF	Area Use Factor			1	EPA, 1997
Chemical   Crab   Crab   Worm   Worm   Intake   Intake	BW	Body weight (kg)			2.15E-01	Dunning, 1993
Assenic 0.00E+00 0.00E+00 1.37E-02 3.78E-02 1.40E-02 3.88E-02 6.97E-03 1.93E-02 Copper 0.00E+00 0.00E+	Chemical					
Assenic 0.00E+00 0.00E+00 1.37E-02 3.78E-02 1.40E-02 3.88E-02 6.97E-03 1.93E-02 Copper 0.00E+00 0.00E+	4 4'-DDT	6.25F-04 1.53F-03	1 24F-04	3 05F-04	1.63F-04	4 00F-04
Copper	Arsenic					
Hexachlorobenzene	Benzo(b)fluoranthene	1.37E-02 3.78E-02	1.40E-02	3.88E-02	6.97E-03	1.93E-02
Mercury	Copper	0.00E+00 0.00E+00	2.44E+00	3.40E+00	7.36E-01	1.03E+00
Nickel 0.00E+00 0.00E+00 0.00E+00 1.34E+01 1.79E+01 4.04E+00 5.41E+00 Zinc 0.00E+00	Hexachlorobenzene					
Zinc 0.00E+00 0.00E+00 0.00E+00 2.05E+01 2.54E+01 6.19E+00 7.65E+00 1.PAH 0.00E+00 0						
LPAH						
HPAH 2.84E-02 7.88E-02 1.40E-02 3.88E-02 9.94E-03 2.75E-02 TOTAL PAHS 2.84E-02 7.88E-02 1.40E-02 3.88E-02 9.94E-03 2.75E-02 TOTAL PAHS 2.84E-02 7.88E-02 1.40E-02 3.88E-02 9.94E-03 2.75E-02 TOTAL INTAKE  INTAKE = Sediment Intake + Food Intake    INTAKE = Sediment Intake + Food Intake   TOTAL Average RME Intake Intake Intake   Intake						
TOTAL PAHS  2.84E-02 7.88E-02 1.40E-02 3.88E-02 9.94E-03 2.75E-02  TOTAL INTAKE  INTAKE = Sediment Intake + Food Intake  TOTAL Average RME Intake Intake  4,4'-DDT  4,4'-DDT  Arsenic  Benzo(b)fluoranthene  Copper  1.78E-04 4.38E-04 2.86E+00 2.14E+00 2.86E+00 2.14E+00 2.86E+00 2.17E-02 Copper  1.53E+00 2.13E+00 2.13E+00 2.13E+00 2.14E-00 2.35E-02 Mercury  3.84E-03 5.96E-03 Nickel 5.50E+00 7.36E+00 7.36E+00 7.71E+00 1.20E+01 1.78H-04 1.00E+01 1.78E-04 4.38E-04 4.4-DDT 4.38E-04 4.38E-04 4.38E-04 4.4-DDT 4.38E-04 4.38E-04 4.38E-04 4.4-DDT 4.38E-04 4.38E-04 4.38E-04 4.4-DDT 4.38E-04 4.38E-04 4.4-DDT 4.38E-04 4.38E-04 4.4-DDT 4.38E-04 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38E-04 4.4-DDT 4.38						
NTAKE = Sediment Intake + Food Intake	TOTAL PAHs					2.75E-02
TOTAL Average RME   Intake	TOTAL INTAKE					
Average Intake   RME Intake   Intake	INTAKE = Sediment Intake + Food Int	ake				
Arsenic       2.14E+00       2.86E+00         Benzo(b)fluoranthene       7.82E-03       2.17E-02         Copper       1.53E+00       2.13E+00         Hexachlorobenzene       2.24E-02       2.35E-02         Mercury       3.84E-03       5.96E-03         Nickel       5.50E+00       7.36E+00         Zinc       9.71E+00       1.20E+01         LPAH       0.00E+00       0.00E+00         HPAH       1.08E-02       2.99E-02	Chemical				Average	RME
Arsenic       2.14E+00       2.86E+00         Benzo(b)fluoranthene       7.82E-03       2.17E-02         Copper       1.53E+00       2.13E+00         Hexachlorobenzene       2.24E-02       2.35E-02         Mercury       3.84E-03       5.96E-03         Nickel       5.50E+00       7.36E+00         Zinc       9.71E+00       1.20E+01         LPAH       0.00E+00       0.00E+00         HPAH       1.08E-02       2.99E-02	4.4'-DDT				1.78E-04	4.38E-04
Benzo(b)fluoranthene     7.82E-03     2.17E-02       Copper     1.53E+00     2.13E+00       Hexachlorobenzene     2.24E-02     2.35E-02       Mercury     3.84E-03     5.96E-03       Nickel     5.50E+00     7.36E+00       Zinc     9.71E+00     1.20E+01       LPAH     0.00E+00     0.00E+00       HPAH     1.08E-02     2.99E-02	Arsenic					
Copper       1.53E+00       2.13E+00         Hexachlorobenzene       2.24E-02       2.35E-02         Mercury       3.84E-03       5.96E-03         Nickel       5.50E+00       7.36E+00         Zinc       9.71E+00       1.20E+01         LPAH       0.00E+00       0.00E+00         HPAH       1.08E-02       2.99E-02	Benzo(b)fluoranthene					
Mercury     3.84E-03     5.96E-03       Nickel     5.50E+00     7.36E+00       Zinc     9.71E+00     1.20E+01       LPAH     0.00E+00     0.00E+00       HPAH     1.08E-02     2.99E-02	Copper				1.53E+00	
Nickel     5.50E+00     7.36E+00       Zinc     9.71E+00     1.20E+01       LPAH     0.00E+00     0.00E+00       HPAH     1.08E-02     2.99E-02	Hexachlorobenzene					
Zinc       9.71E+00       1.20E+01         LPAH       0.00E+00       0.00E+00         HPAH       1.08E-02       2.99E-02	Mercury					
LPAH     0.00E+00     0.00E+00       HPAH     1.08E-02     2.99E-02	Nickel					
HPAH 1.08E-02 2.99E-02						
	-					** *

# TABLE G-8 INTAKE CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND GREEN HERON

Parameter	Definition	,	(BW))		Value	Reference
Parameter Intake	Intake of chemical (mg/kg	r-day)			calculated	Reference
Cf	Fish concentration (mg/kg	,			see FoodConc page	
Cc	Crab concentration (mg/k	,			see FoodConc page	
R	Ingestion rate of of food (	0,			1.13E-01	EPA, 1993
DFf	Dietary fraction of fish (ur	0 ,,			7.50E-01	Kent, 1986
DFc	Dietary fraction of crab (u	,		2.50E-01	Kent, 1986	
AUF	Area Use Factor	,			1	EPA, 1997
BW	Body weight (kg)				3.75E-01	Dunning, 1993
Chemical	Average Fish	RME Fish	Average Crab	RME Crab	Average Intake	RME Intake
1,4'-DDT	9.02E-05	2.21E-04	6.25E-04	1.53E-03	6.72E-05	1.65E-04
Arsenic	9.42E-01	1.25E+00	0.00E+00	0.00E+00	2.12E-01	2.82E-01
Benzo(b)fluoranthene	5.74E-03	1.59E-02	1.37E-02	3.78E-02	2.32E-03	6.42E-03
Copper	8.14E+00	1.13E+01	0.00E+00	0.00E+00	1.83E+00	2.55E+00
Hexachlorobenzene	2.53E-02	2.66E-02	8.90E-02	9.35E-02	1.24E-02	1.30E-02
Mercury	5.68E-02	8.82E-02	0.00E+00	0.00E+00	1.28E-02	1.98E-02
	8.05E-01	1.08E+00	0.00E+00	0.00E+00	1.81E-01	2.42E-01
		E 00E 6:				
Zinc	4.11E+01	5.08E+01	0.00E+00	0.00E+00	9.24E+00	1.14E+01
Zinc LPAH	4.11E+01 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nickel Zinc LPAH HPAH TOTAL PAHs	4.11E+01					

#### **TABLE G-9** ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND FIDDLER CRAB

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default see Intake

Intake TRV see TRV summary page

Chemical	Average Intake	RME Intake	TRV Fiddler Crab	Average EHQ	RME EHQ
4.4'-DDT	3.60E-10	8.82E-10	1.47E-01	2.45E-09	6.00E-09
Arsenic	1.42E-05	1.89E-05	1.47 = 01	2. <del>4</del> 3L-03	0.002-03
Benzo(b)fluoranthene	2.92E-08	8.08E-08			
Copper	1.36E-05	1.89E-05	5.60E+00	2.43E-06	3.38E-06
Hexachlorobenzene	3.46E-08	3.63E-08	2.25E-01	1.54E-07	1.61E-07
Mercury	3.16E-08	4.91E-08	1.01E+00	3.13E-08	4.86E-08
Nickel	3.64E-05	4.87E-05	1.70E+00	2.14E-05	2.86E-05
Zinc	7.27E-05	8.98E-05	7.54E+01	9.64E-07	1.19E-06
LPAH			6.56E+01		
HPAH	2.92E-08	8.08E-08	9.31E+00	3.13E-09	8.68E-09
TOTAL PAHs	2.92E-08	8.08E-08			

# TABLE G-10 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND BLACK DRUM

Ecological Hazard Quoti	ient = Intake/TRV				
Parameter	Definition			Defa	- It
Intake	Intake of COPC (mg/kg-day	1			uit ntake
TRV	Toxicity Reference Value (mg/kg-day				RV summary page
IKV	TOXICITY Reference value (II	ig/kg)		266 I	KV Summary page
	Average	RME	TRV	Average	RME
Chemical	Intake	Intake	Black Drum	EHQ	EHQ
4,4'-DDT	6.20E-06	1.52E-05	1.47E-01	4.22E-05	1.04E-04
Arsenic	5.54E-02	7.37E-02	= 0.	1.222 00	1.012 0.
Benzo(b)fluoranthene	2.52E-04	6.98E-04			
Copper	9.11E-02	1.27E-01	5.60E+00	1.63E-02	2.27E-02
Hexachlorobenzene	9.00E-04	9.46E-04	2.25E-01	4.00E-03	4.20E-03
Mercury	4.84E-04	7.50E-04	1.01E+00	4.79E-04	7.43E-04
Nickel	1.31E-01	1.75E-01	1.70E+00	7.69E-02	1.03E-01
Zinc	5.07E-01	6.26E-01	7.54E+01	6.72E-03	8.30E-03
LPAH			6.56E+01		
HPAH	3.55E-04	9.84E-04	9.31E+00	3.82E-05	1.06E-04

9.84E-04

3.55E-04

TOTAL PAHs

#### **TABLE G-11** ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND SPOTTED SEATROUT

Ecological Hazard Quotient =	Intake/TRV
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Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default see Intake

Intake TRV see TRV summary page

Chemical	Average Intake	RME Intake	TRV Spotted Seatrout	Average EHQ	RME EHQ
4.4'-DDT	2.35E-06	5.76E-06	1.47E-01	1.60E-05	3.92E-05
4,4 -DD1 Arsenic	2.45E-02	3.26E-02	1.47 E-01	1.60=-05	3.92E-05
Benzo(b)fluoranthene	1.49E-04	4.14E-04			
Copper	2.12E-01	2.95E-01	5.60E+00	3.78E-02	5.27E-02
Hexachlorobenzene	6.57E-04	6.90E-04	2.25E-01	2.92E-03	3.07E-03
Mercury	1.48E-03	2.29E-03	1.01E+00	1.46E-03	2.27E-03
Nickel	2.09E-02	2.80E-02	1.70E+00	1.23E-02	1.65E-02
Zinc	1.07E+00	1.32E+00	7.54E+01	1.42E-02	1.75E-02
LPAH			6.56E+01		
HPAH	1.49E-04	4.14E-04	9.31E+00	1.60E-05	4.44E-05
TOTAL PAHs	1.49E-04	4.14E-04			

#### TABLE G-12 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND SANDPIPER

Ecological Hazard	d Quotient = Intake/TRV	
Parameter	Definition	Default
Intake	Intake of COPC (mg/kg-day)	see Intake
TRV	Toxicity Reference Value (mg/kg)	see TRV summary page

Chemical	Average Intake	RME Intake	TRV Sandpiper	Average EHQ	RME EHQ
4,4'-DDT	1.78E-04	4.38E-04	2.27E-01	7.86E-04	1.93E-03
Arsenic	2.14E+00	2.86E+00	0.00E+00	7.002 0.	
Benzo(b)fluoranthene	7.82E-03	2.17E-02	0.00E+00		
Copper	1.53E+00	2.13E+00	4.05E+00	3.78E-01	5.27E-01
Hexachlorobenzene	2.24E-02	2.35E-02	2.25E-01	9.94E-02	1.04E-01
Mercury	3.84E-03	5.96E-03	3.25E+00	1.18E-03	1.83E-03
Nickel	5.50E+00	7.36E+00	6.71E+00	8.20E-01	1.10E+00
Zinc	9.71E+00	1.20E+01	6.61E+01	1.47E-01	1.81E-01
LPAH			6.56E+01		
HPAH	1.08E-02	2.99E-02	9.31E+00	1.16E-03	3.21E-03
TOTAL PAHs	1.08E-02	2.99E-02	0.00E+00		

#### TABLE G-13 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR INTRACOASTAL WATERWAY SEDIMENT -- BACKGROUND **GREEN HERON**

Ecological Hazard Quotient =	Intake/TRV
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Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default see Intake

Intake TRV see TRV summary page

Chemical	Average Intake	RME Intake	TRV Green Heron	Average EHQ	RME EHQ
4,4'-DDT	6.72E-05	1.65E-04	2.27E-01	2.96E-04	7.26E-04
Arsenic	2.12E-01	2.82E-01			
Benzo(b)fluoranthene	2.32E-03	6.42E-03			
Copper	1.83E+00	2.55E+00	4.05E+00	4.52E-01	6.30E-01
Hexachlorobenzene	1.24E-02	1.30E-02	2.25E-01	5.49E-02	5.77E-02
Mercury	1.28E-02	1.98E-02	3.25E+00	3.94E-03	6.10E-03
Nickel	1.81E-01	2.42E-01	6.71E+00	2.70E-02	3.61E-02
Zinc	9.24E+00	1.14E+01	6.61E+01	1.40E-01	1.73E-01
LPAH			6.56E+01		
HPAH	3.43E-03	9.49E-03	9.31E+00	3.68E-04	1.02E-03
TOTAL PAHs	3.43E-03	9.49E-03	0.00E+00		00
	002 00	01.02 00	0.002.00		

### TABLE G-14 AVERAGE CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg) -- BACKGROUND SEDIMENT

### Cfood = Csed x BSAF (or BSAFor BCF with food chain multiplier)

where:

Cfood = Chemical Concentration in food (mg/kg dry)
Csed = Chemical Concentration in soil (mg/kg dry)
BSAF Biota to Sediment Accumulation Factor (unitless)

BCF = Bioconcentration Factor (unitless)

Compound	Average Csed (mg/kg)	Sediment to Worm BSAF	Worm F Concentration	Reference	Sediment to Crab BSAF	Crab Concentration	Reference	Sediment to Fish BSAF	Fish Concentration	Reference
	4.505.04	2.225.24	4.045.04.54		4.005.00	0.055.04	2015.22	5.005.04	2.225.25	W0D0U 4005
4,4'-DDT	1.56E-04				4.02E+00		BSAF DB	5.80E-01		WSDOH, 1995
Arsenic	5.81E+00	9.00E-01	5.23E+00 EF	PA, 1999		0.00E+00	1	1.62E-01	9.42E-01	EPA, 2000
Benzo(b)fluoranthene	8.70E-03	1.61E+00	1.40E-02 EF	PA, 1999	1.57E+00	1.37E-02	BSAF DB	6.60E-01	5.74E-03	WSDOH, 1995
Copper	8.14E+00	3.00E-01	2.44E+00 EF	PA, 1999		0.00E+00	)	1.00E+00	8.14E+00	Max value from Calcasieu RI
Hexachlorobenzene	1.78E-02	5.12E-01	9.11E-03 BS	SAF DB	5.00E+00	8.90E-02	BSAF DB	1.42E+00	2.53E-02	Max value from Calcasieu RI
Mercury	1.76E-02	4.00E-01	7.04E-03 EF	PA, 1999		0.00E+00	)	3.23E+00	5.68E-02	Max value from Calcasieu RI
Nickel	1.49E+01	9.00E-01	1.34E+01 EF	PA, 1999		0.00E+00	)	5.40E-02	8.05E-01	Max value from Calcasieu RI
Zinc	3.60E+01	5.70E-01	2.05E+01 EF	PA, 1999		0.00E+00	)	1.14E+00	4.11E+01	Max value from Calcasieu RI
LPAH	0.00E+00	1.61E+00	0.00E+00 EF	PA, 1999	3.27E+00	0.00E+00	max PAH	4.96E-01	0.00E+00	WSDOH, 1995
HPAH	8.70E-03	1.61E+00	1.40E-02 EF	PA, 1999	3.27E+00	2.84E-02	max PAH	6.60E-01	5.74E-03	WSDOH, 1995
TOTAL PAHs	8.70E-03	1.61E+00	1.40E-02 EF	PA, 1999	3.27E+00	2.84E-02	max PAH	6.60E-01	5.74E-03	WSDOH, 1995

#### Notes

<sup>\*</sup> For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

### TABLE G-15 RME CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg) -- BACKGROUND SEDIMENT

### Cfood = Csed x BSAF (or BSAFor BCF with food chain multiplier)

where:

Cfood = Chemical Concentration in food (mg/kg dry)
Csed = Chemical Concentration in soil (mg/kg dry)
BSAF Biota to Sediment Accumulation Factor (unitless)

BCF = Bioconcentration Factor (unitless)

Compound	RME Csed (mg/kg)	Sediment to Worm BSAF	Worm Refe	erence S	ediment to Crab BSAF	Crab Concentration	Reference	Sediment to Fish BSAF	Fish Concentration	Reference
4,4'-DDT	3.82E-04	8.00E-01	3.05E-04 BSAI	F DB	4.02E+00	1.53E-03	BSAF DB	5.80E-01	2.21E-04 \	WSDOH, 1995
Arsenic	7.74E+00	9.00E-01	6.97E+00 EPA,	, 1999		0.00E+00	ı	1.62E-01	1.25E+00 E	EPA, 2000
Benzo(b)fluoranthene	2.41E-02	1.61E+00	3.88E-02 EPA,	, 1999	1.57E+00	3.78E-02	BSAF DB	6.60E-01	1.59E-02 \	NSDOH, 1995
Copper	1.13E+01	3.00E-01	3.40E+00 EPA,	, 1999		0.00E+00	ı	1.00E+00	1.13E+01 I	Max value from Calcasieu RI
Hexachlorobenzene	1.87E-02	5.12E-01	9.57E-03 BSA	F DB	5.00E+00	9.35E-02	BSAF DB	1.42E+00	2.66E-02 I	Max value from Calcasieu RI
Mercury	2.73E-02	4.00E-01	1.09E-02 EPA,	, 1999		0.00E+00	1	3.23E+00	8.82E-02 I	Max value from Calcasieu RI
Nickel	1.99E+01	9.00E-01	1.79E+01 EPA,	, 1999		0.00E+00	1	5.40E-02	1.08E+00 I	Max value from Calcasieu RI
Zinc	4.45E+01	5.70E-01	2.54E+01 EPA,	, 1999		0.00E+00	ı	1.14E+00	5.08E+01 I	Max value from Calcasieu RI
LPAH	0.00E+00	1.61E+00	0.00E+00 EPA,	, 1999	3.27E+00	0.00E+00	max PAH	4.96E-01	0.00E+00 \	WSDOH, 1995
HPAH	2.41E-02	1.61E+00	3.88E-02 EPA,	, 1999	3.27E+00	7.88E-02	max PAH	6.60E-01	1.59E-02 \	WSDOH, 1995
TOTAL PAHs	2.41E-02	1.61E+00	3.88E-02 EPA,	, 1999	3.27E+00	7.88E-02	max PAH	6.60E-01	1.59E-02 \	WSDOH, 1995

#### Notes

<sup>\*</sup> For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

# TABLE H-1 EXPOSURE POINT CONCENTATION (mg/kg) SEDIMENT NORTH OF MARLIN

			Statistic
Parameter	Average	95% UCL	Used
2-Methylnaphthalene	0.0246	0.116	99% Chebyshev
4,4'-DDT	9.52E-04	0.0022	97.5% Chebyshev
Acenaphthene	0.0195	0.064	99% Chebyshev
Acenaphthylene	0.0314	0.165	99% Chebyshev
Anthracene	0.0288	0.126	99% Chebyshev
Benzo(a)anthracene	0.0543	0.306	99% Chebyshev
Benzo(a)pyrene	0.104	0.476	99% Chebyshev
Benzo(b)fluoranthene	0.0902	0.431	99% Chebyshev
Benzo(g,h,i)perylene	0.198	0.755	99% Chebyshev
Benzo(k)fluoranthene	0.0659	0.237	99% Chebyshev
Cadmium	0.103	0.313	99% Chebyshev
Chrysene	0.217	1.24	99% Chebyshev
Dibenz(a,h)anthracene	0.203	1.1	99% Chebyshev
Endosulfan Sulfate	0.0018	0.00144	97.5% Chebyshev
Endrin Aldehyde	0.001	0.0043	97.5% Chebyshev
Endrin Ketone	7.85E-04	0.002	95% Chebyshev
Fluoranthene	0.108	0.637	99% Chebyshev
Fluorene	0.0186	0.0637	99% Chebyshev
gamma-Chlordane	4.05E-04	8.27E-04	95% Chebyshev
Indeno(1,2,3-cd)pyrene	0.201	0.785	99% Chebyshev
Nickel	17.3	18.1	95% Student's-t
Phenanthrene	0.0761	0.432	99% Chebyshev
Pyrene	0.154	0.663	99% Chebyshev
LPAH	0.199	0.9667	
HPAH	1.3954	6.63	
TOTAL PAHs	1.5944	7.5967	

### TABLE H-2 TOXICITY REFERENCE VALUES

Procession   Pro		Conitollo			Conitollo																	
Properties   Pro		Capitella			Capitella			Fiddler Crob			Blook Drum			Coattad agatraut			Condnings			Croon boron		
Part   Part	Parameter		Ref	Comments		Ref	Comments		Ref	Comments	***	Ref	Comments		Ref	Comments		Ref	Comments		Ref	Comments
Highest toxories MANAS    Highest toxories		( 0 0)			( 0 0)			(99 ==)/			(gg)			(g,g= : : ===)			(gg= :: ==,)			(gg= : : ==))	11011	
Act   Control																			for growth and reproduction lower than the lowest bounded			for growth and reproduction lower than the lowest bounded LOAEL for
Control   Cont	4,4'-DDT	0.001	SQUIRT	ERL	0.007	SQUIRT	ERM	0.147	EPA, 2007a	mammalian TRV for soil	0.147	EPA, 2007a	mammalian TRV for soil	0.147	EPA, 2007a	mammalian TRV for soil	0.227	EPA, 2007a		0.227	EPA, 2007a	
Application   Control	Acenaphthene	0.016	SQUIRT	ERL	0.5	SQUIRT	ERM															
Second processes   Association   Common   Comm	Acenaphthylene	0.044	SQUIRT	ERL	0.64	SQUIRT																
Part   Part	Anthracene	0.0853	SQUIRT		1.1																	
Solution   Solution	Benzo(a)anthracene				1.6																	
Beradig Apperium   G.67   SOURT   AET   G.67   SOURT   AET   G.67   SOURT   AET	1.712																					
Secretary   Superior																						
Cudmins	10. 171 3																					
Confinence   1.2   SOURT   ERL   9.6   SOURT   ERL   2.8   SOURT   ERM   0.77   EPA, 2005   mammalian TRV for soil   0.77   EPA, 2005   mammalian TRV for soil   0.77   EPA, 2005   mammalian TRV for soil   1.47   EPA, 1999   mammalian TRV for soil   0.77   EPA, 2005   mammalian TRV for soil   1.47   EPA, 1999   mammalian TRV for soil   0.77   EPA, 2005   mammalian TRV for soil   0.77   EPA, 2007   mammalian TRV fo	Benzo(k)fluoranthene	1.8	SQUIRT	AET	1.8	SQUIRT	AET															
Depart   D																			NOAEL values for			values for reproduction
Debroid plantwiscence   C.0534   SQUIRT   ERL   C.76   SQUIRT								0.77	EPA, 2005b	mammalian TRV for soil	0.77	EPA, 2005b	mammalian TRV for soil	0.77	EPA, 2005b	mammalian TRV for soil	1.47	EPA, 1999	reproduction and growth	1.47	EPA, 1999	and growth
Endosulfan Sulfate   Figure																						
FEL for freshwater   FEL for freshwater   FEL for freshwater   FEL for Freshwater   FEL for		0.0634	SQUIRT	ERL	0.26	SQUIRT	ERM															
Endrin Alderhyde	Endosulfan Sulfate						551.7															
FELfor   FELfor   Felf   Fel																			owl with an uncertainty			owl with an uncertainty
Endring Netone   0.00287   SQUIRT   Sediment   0.0624   SQUIRT   Sediment   0.0624   SQUIRT   Sediment   0.0624   SQUIRT   Sediment   0.0624   SQUIRT   SERI   5.1   SQUIRT   SQUIRT   SERI   5.1   SQUIRT   SQUIRT   SQUIRT   SERI   0.54   SQUIRT	Endrin Aldehyde	0.00267	SQUIRT		0.0624	SQUIRT		0.092	Sample, 1996	mammalian TRV for soil	0.092	Sample, 1996	mammalian TRV for soil	0.092	Sample, 1996	mammalian TRV for soil	0.01	Sample, 1996			Sample, 1996	
Flooranthene   0.6   SQUIRT   ERL   5.1   SQUIRT   ERM																						
Fluorene		0.00-0.						0.092	Sample, 1996	mammalian TRV for soil	0.092	Sample, 1996	mammalian TRV for soil	0.092	Sample, 1996	mammalian TRV for soil	0.01	Sample, 1996	factor of 0.1	0.01	Sample, 1996	factor of 0.1
Sample   1996   Sample   199																						
Sample   196   Samp	Fluorene	0.019	SQUIRT	EKL	0.54	SQUIRT	ERM												Charais NOAEL is and			Charais NOAEL is and
Highest bounded NOAEL   For growth and reproduction lower than the lowest bounded LOAEL for growth and reproduction, lower than the lowest bounded LOAEL for growth and the lowest bounded LOAEL for reproduction, services and LOAEL for soil   1.7   EPA, 2007d   mammalian TRV for soil	9							4.6	Sample, 1996	mammalian TRV for soil	4.6	Sample, 1996	mammalian TRV for soil	4.6	Sample, 1996	mammalian TRV for soil	2.14	Sample, 1996		2.14	Sample, 1996	
Nickel 20.9 SQUIRT ERL 51.6 SQUIRT ERM 1.7 EPA, 2007d mammalian TRV for soil 1.7 EPA, 2007d mammalian TRV for soil 1.7 EPA, 2007d mammalian TRV for soil 65.6 EPA, 2007b mammalian TRV for soil 65.6 EPA, 2007b mammalian TRV for soil 65.6 EPA, 2007b mammalian TRV for soil 65.6 EPA, 2007b mammalian TRV for soil midpoint between NOAEL and LOAEL for soil mammalian TRV 9.31 EPA, 2007b mammalian TRV 9	Indeno(1,2,3-cd)pyrene	0.6	SQUIRT	AET	0.6	SQUIRT	AET															
Phenanthrene   0.24   SQUIRT   ERL   1.5   SQUIRT   ERM																			for growth and reproduction lower than the lowest bounded			for growth and reproduction lower than the lowest bounded LOAEL for
Pyrene   0.665   SQUIRT   ERL   2.6   SQUIRT   ERM   0.552   SQUIR	Nickel	20.9	SQUIRT	ERL	51.6	SQUIRT	ERM	1.7	EPA, 2007d	mammalian TRV for soil	1.7	EPA, 2007d	mammalian TRV for soil	1.7	EPA, 2007d	mammalian TRV for soil	6.71	EPA, 2007d	growth, and survival	6.71	EPA, 2007d	survival
LPAH         0.552         SQUIRT         ERL         3.162         SQUIRT         ERM         65.6         EPA, 2007b         mammalian TRV for soil         65.6         EPA, 2007b         mammalian TRV f	Phenanthrene				1.5																	
midpoint between NOAEL and LOAEL for soil  HPAH 1.7 SQUIRT ERL 9.6 SQUIRT ERM 9.31 EPA, 2007b mammalian TRV	Pyrene	0.665	SQUIRT	ERL	2.6	SQUIRT	ERM				_											
HPAH 1.7 SQUIRT ERL 9.6 SQUIRT ERM 9.31 EPA, 2007b mammalian TRV 9.31 EPA, 2007b mammalian TRV 9.31 EPA, 2007b mammalian TRV 9.31 EPA, 2007b mammalian TRV 9.31 EPA, 2007b mammalian TRV	LPAH	0.552	SQUIRT	ERL	3.162	SQUIRT	ERM	65.6	EPA, 2007b	midpoint between NOAEL		EPA, 2007b	midpoint between	65.6	EPA, 2007b	midpoint between NOAEL		EPA, 2007b	midpoint between NOAEL		EPA, 2007b	midpoint between NOAEL
	НРАН	1.7	SOUIRT	FRI	9.6	SOUIRT	FRM	9.31	FPA 2007h		9.31	FPA 2007h		9.31	FPA 2007h		9.31	FPA 2007h		9.31	FPA 2007h	
	TOTAL PAHs	4.022	SQUIRT	ERL				0.01	277, 20070	ammanan mv	0.01	2171, 20070	SS. Hammanan IIV	0.01	2171, 20070	mannanan mv	5.51	2171, 20070	.nammanam mv	5.51	2171, 20070	manimalan my

Notes: ERL -- Effects Range-Low AET -- Apparent Effects Threshold TEL -- Threshold Effects Level

EPA, 2007a -- DDT EPA, 2007b -- PAHs EPA, 2007d -- Nickel EPA, 2005b -- Cadmium

### TABLE H-3 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SEDIMENT NORTH OF MARLIN **CAPITELLA CAPITATA**

Ecological Hazard Quotient = Sc/TRV

Definition
Soil Concentration (mg/kg)
Toxicity Reference Value (mg/kg) Parameter Sc TRV Default see below

Chemical	Average Sc	RME Sc	TRV capitella capitata	Average EHQ	RME EHQ
2-Methylnaphthalene	2.46E-02	1.16E-01	7.00E-02	3.51E-01	1.66E+00
4.4'-DDT	9.52E-04	2.20E-03	1.00E-03	9.52E-01	2.20E+00
Acenaphthene	1.95E-02	6.40E-02	1.60E-02	1.22E+00	4.00E+00
Acenaphthylene	3.14E-02	1.65E-01	4.40E-02	7.14E-01	3.75E+00
Anthracene	2.88E-02	1.26E-01	8.53E-02	3.38E-01	1.48E+00
Benzo(a)anthracene	5.43E-02	3.06E-01	2.61E-01	2.08E-01	1.17E+00
Benzo(a)pyrene	1.04E-01	4.76E-01	4.30E-01	2.42E-01	1.11E+00
Benzo(b)fluoranthene	9.02E-02	4.31E-01	1.80E+00	5.01E-02	2.39E-01
Benzo(g,h,i)perylene	1.98E-01	7.55E-01	6.70E-01	2.96E-01	1.13E+00
Benzo(k)fluoranthene	6.59E-02	2.37E-01	1.80E+00	3.66E-02	1.32E-01
Cadmium	1.03E-01	3.13E-01	1.20E+00	8.58E-02	2.61E-01
Chrysene	2.17E-01	1.24E+00	3.84E-01	5.65E-01	3.23E+00
Dibenz(a,h)anthracene	2.03E-01	1.10E+00	6.34E-02	3.20E+00	1.74E+01
Endosulfan Sulfate	1.80E-03	1.44E-03			
Endrin Aldehyde	1.00E-03	4.30E-03	2.67E-03	3.75E-01	1.61E+00
Endrin Ketone	7.85E-04	2.00E-03	2.67E-03	2.94E-01	7.49E-01
Fluoranthene	1.08E-01	6.37E-01	6.00E-01	1.80E-01	1.06E+00
Fluorene	1.86E-02	6.37E-02	1.90E-02	9.79E-01	3.35E+00
gamma-Chlordane	4.05E-04	8.27E-04	5.00E-04	8.10E-01	1.65E+00
Indeno(1,2,3-cd)pyrene	2.01E-01	7.85E-01	6.00E-01	3.35E-01	1.31E+00
Nickel	1.73E+01	1.81E+01	2.09E+01	8.28E-01	8.66E-01
Phenanthrene	7.61E-02	4.32E-01	2.40E-01	3.17E-01	1.80E+00
Pyrene	1.54E-01	6.63E-01	6.65E-01	2.32E-01	9.97E-01
LPAH	1.99E-01	9.67E-01	5.52E-01	3.61E-01	1.75E+00
HPAH	1.40E+00	6.63E+00	1.70E+00	8.21E-01	3.90E+00
TOTAL PAHs	1.59E+00	7.60E+00	4.02E+00	3.96E-01	1.89E+00

# TABLE H-4 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SEDIMENT NORTH OF MARLIN CAPITELLA CAPITATA -- MIDPOINT BETWEEN ERL AND ERM COMPARISON

Ecological Hazard Quotient = Sc/TRV

Definition
Soil Concentration (mg/kg)
Toxicity Reference Value (mg/kg) Parameter Sc TRV Default see below

Chemical	Average Sc	RME Sc	TRV capitella capitata	Average EHQ	RME EHQ
Chemical	30	30	сарпена сарпата	EnQ	ENQ
2-Methylnaphthalene	2.46E-02	1.16E-01	3.70E-01	6.65E-02	3.14E-01
4,4'-DDT	9.52E-04	2.20E-03	4.00E-03	2.38E-01	5.50E-01
Acenaphthene	1.95E-02	6.40E-02	2.58E-01	7.56E-02	2.48E-01
Acenaphthylene	3.14E-02	1.65E-01	3.42E-01	9.18E-02	4.82E-01
Anthracene	2.88E-02	1.26E-01	5.93E-01	4.86E-02	2.13E-01
Benzo(a)anthracene	5.43E-02	3.06E-01	9.31E-01	5.84E-02	3.29E-01
Benzo(a)pyrene	1.04E-01	4.76E-01	1.02E+00	1.02E-01	4.69E-01
Benzo(b)fluoranthene	9.02E-02	4.31E-01	1.80E+00	5.01E-02	2.39E-01
Benzo(g,h,i)perylene	1.98E-01	7.55E-01	6.70E-01	2.96E-01	1.13E+00
Benzo(k)fluoranthene	6.59E-02	2.37E-01	1.80E+00	3.66E-02	1.32E-01
Cadmium	1.03E-01	3.13E-01	5.40E+00	1.91E-02	5.80E-02
Chrysene	2.17E-01	1.24E+00	1.59E+00	1.36E-01	7.79E-01
Dibenz(a,h)anthracene	2.03E-01	1.10E+00	1.62E-01	1.26E+00	6.80E+00
Endosulfan Sulfate	1.80E-03	1.44E-03			
Endrin Aldehyde	1.00E-03	4.30E-03	3.25E-02	3.07E-02	1.32E-01
Endrin Ketone	7.85E-04	2.00E-03	3.25E-02	2.41E-02	6.15E-02
Fluoranthene	1.08E-01	6.37E-01	2.85E+00	3.79E-02	2.24E-01
Fluorene	1.86E-02	6.37E-02	2.80E-01	6.65E-02	2.28E-01
gamma-Chlordane	4.05E-04	8.27E-04	3.25E-03	1.25E-01	2.54E-01
Indeno(1,2,3-cd)pyrene	2.01E-01	7.85E-01	6.00E-01	3.35E-01	1.31E+00
Nickel	1.73E+01	1.81E+01	3.63E+01	4.77E-01	4.99E-01
Phenanthrene	7.61E-02	4.32E-01	8.70E-01	8.75E-02	4.97E-01
Pyrene	1.54E-01	6.63E-01	1.63E+00	9.43E-02	4.06E-01
LPAH	1.99E-01	9.67E-01	1.86E+00	1.07E-01	5.21E-01
HPAH	1.40E+00	6.63E+00	5.65E+00	2.47E-01	1.17E+00
TOTAL PAHs	1.59E+00	7.60E+00	2.44E+01	6.53E-02	3.11E-01

# TABLE H-5 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SEDIMENT NORTH OF MARLIN CAPITELLA CAPITATA -- ERM COMPARISON

Ecological Hazard Quotient = Sc/TRV

Definition
Soil Concentration (mg/kg)
Toxicity Reference Value (mg/kg) Parameter Sc TRV Default see below

	Average	RME	TRV	Average	RME
Chemical	Sc	Sc	capitella capitata	EHQ	EHQ
					. ===
2-Methylnaphthalene	2.46E-02	1.16E-01	6.70E-01	3.67E-02	1.73E-01
4,4'-DDT	9.52E-04	2.20E-03	7.00E-03	1.36E-01	3.14E-01
Acenaphthene	1.95E-02	6.40E-02	5.00E-01	3.90E-02	1.28E-01
Acenaphthylene	3.14E-02	1.65E-01	6.40E-01	4.91E-02	2.58E-01
Anthracene	2.88E-02	1.26E-01	1.10E+00	2.62E-02	1.15E-01
Benzo(a)anthracene	5.43E-02	3.06E-01	1.60E+00	3.39E-02	1.91E-01
Benzo(a)pyrene	1.04E-01	4.76E-01	1.60E+00	6.50E-02	2.98E-01
Benzo(b)fluoranthene	9.02E-02	4.31E-01	1.80E+00	5.01E-02	2.39E-01
Benzo(g,h,i)perylene	1.98E-01	7.55E-01	6.70E-01	2.96E-01	1.13E+00
Benzo(k)fluoranthene	6.59E-02	2.37E-01	1.80E+00	3.66E-02	1.32E-01
Cadmium	1.03E-01	3.13E-01	9.60E+00	1.07E-02	3.26E-02
Chrysene	2.17E-01	1.24E+00	2.80E+00	7.75E-02	4.43E-01
Dibenz(a,h)anthracene	2.03E-01	1.10E+00	2.60E-01	7.81E-01	4.23E+00
Endosulfan Sulfate	1.80E-03	1.44E-03	0.00E+00		
Endrin Aldehyde	1.00E-03	4.30E-03	6.24E-02	1.60E-02	6.89E-02
Endrin Ketone	7.85E-04	2.00E-03	6.24E-02	1.26E-02	3.21E-02
Fluoranthene	1.08E-01	6.37E-01	5.10E+00	2.12E-02	1.25E-01
Fluorene	1.86E-02	6.37E-02	5.40E-01	3.44E-02	1.18E-01
gamma-Chlordane	4.05E-04	8.27E-04	6.00E-03	6.75E-02	1.38E-01
Indeno(1,2,3-cd)pyrene	2.01E-01	7.85E-01	6.00E-01	3.35E-01	1.31E+00
Nickel	1.73E+01	1.81E+01	5.16E+01	3.35E-01	3.51E-01
Phenanthrene	7.61E-02	4.32E-01	1.50E+00	5.07E-02	2.88E-01
Pyrene	1.54E-01	6.63E-01	2.60E+00	5.92E-02	2.55E-01
LPAH	1.99E-01	9.67E-01	3.16E+00	6.29E-02	3.06E-01
HPAH	1.40E+00	6.63E+00	9.60E+00	1.45E-01	6.91E-01
TOTAL PAHs	1.59E+00	7.60E+00	4.48E+01	3.56E-02	1.70E-01

## TABLE H-6 INTAKE CALCULATIONS FOR SEDIMENT NORTH OF MARLIN FIDDLER CRAB

SEDIMENT INGESTION	N N				
SEDIWIENT INGESTIC	N.				
INTAKE = (Sc * IR * A	F * AUF) / (BW)				
`	, , ,				
Parameter	Definition			Value	Reference
Intake	Intake of chemical (mg/kg-day)			calculated	i
Sc	Sed concentration (mg/kg)			see data pa	<u> </u>
IR	Ingestion rate of sed (kg/day)			1.16E-05	*
AF	Chemical Bioavailability in sedim	nent (unitless)		1	EPA, 1997
AUF	Area Use Factor			1	EPA, 1997
BW	Body weight (kg)			9.00E-03	based on width/length eq.
	Average		RME	Average	RME
Chemical	Sc	•	Sc	Intake	Intake
2-Methylnaphthalene	2.46E-0	2	1.16E-01	3.16E-05	1.49E-04
4,4'-DDT	9.52E-0		2.20E-03	1.22E-06	
Acenaphthene	1.95E-0	2	6.40E-02	2.50E-05	8.22E-05
Acenaphthylene	3.14E-0		1.65E-01	4.03E-05	
Aluminum	1.32E+0		1.40E+04	1.70E+01	
Anthracene	2.88E-0	2	1.26E-01	3.70E-05	
Benzo(a)anthracene	5.43E-0	2	3.06E-01	6.97E-05	
Benzo(a)pyrene	1.04E-0		4.76E-01	1.34E-04	
Benzo(b)fluoranthene	9.02E-0	2	4.31E-01	1.16E-04	5.54E-04
Benzo(g,h,i)perylene	1.98E-0	1	7.55E-01	2.54E-04	9.70E-04
Benzo(k)fluoranthene	6.59E-0	2	2.37E-01	8.46E-05	3.04E-04
Cadmium	1.03E-0	1	3.13E-01	1.32E-04	4.02E-04
Chrysene	2.17E-0	1	1.24E+00	2.79E-04	1.59E-03
Dibenz(a,h)anthracene	e 2.03E-0	1	1.10E+00	2.61E-04	1.41E-03
Endosulfan Sulfate	1.80E-0	3	1.44E-03	2.31E-06	1.85E-06
Endrin Aldehyde	1.00E-0	3	4.30E-03	1.28E-06	5.52E-06
Endrin Ketone	7.85E-0	4	2.00E-03	1.01E-06	2.57E-06
Fluoranthene	1.08E-0	1	6.37E-01	1.39E-04	8.18E-04
Fluorene	1.86E-0	2	6.37E-02	2.39E-05	8.18E-05
gamma-Chlordane	4.05E-0	4	8.27E-04	5.20E-07	1.06E-06
Indeno(1,2,3-cd)pyren	e 2.01E-0	1	7.85E-01	2.58E-04	1.01E-03
Nickel	1.73E+0	1	1.81E+01	2.22E-02	2.32E-02
Phenanthrene	7.61E-0	2	4.32E-01	9.77E-05	5.55E-04
Pyrene	1.54E-0	1	6.63E-01	1.98E-04	8.52E-04
LPAH	1.99E-0	1	9.67E-01	2.56E-04	1.24E-03
HPAH	1.40E+0	0	6.63E+00	1.79E-03	8.52E-03
TOTAL PAHs	1.59E+0	0	7.60E+00	2.05E-03	9.76E-03
FOOD INGESTION					
INITAL(E (O: + ID + D	E: * ALIE) / (D)A()				
INTAKE = (Ci * IR * D	FI " AUF) / (BW)				
Parameter	Definition			Value	Reference
Intake	Intake of chemical (mg/kg-day)			calculated	
Ci	Invertebrate concentration (mg/kg	(a)		see FoodConc	
IR	Ingestion rate of of food (kg/day)			1.16E-05	
Dfi	Dietary fraction of invertebrates			1.00E+00	•
AUF	Area Use Factor	(41.11.000)		1	EPA, 1997
BW	Body weight (kg)			9.00E-03	
	3 ( 3)				3
		Average	RME	Average	RME
Chemical		Invertebrate	Invertebrate	Intake	Intake
2-Methylnaphthalene		3.96E-02	1.87E-01	5.09E-05	2.40E-04
4,4'-DDT		7.62E-04	1.76E-01	9.78E-07	
Acenaphthene		3.14E-02	1.76E-03 1.03E-01	9.76E-07 4.03E-05	
Acenaphthylene		5.06E-02	2.66E-01	6.49E-05	
Anthracene		4.64E-02	2.03E-01	5.96E-05	
r		1.572 02	2.302 01	5.55 <u>L</u> -05	2.012 04

# TABLE H-6 INTAKE CALCULATIONS FOR SEDIMENT NORTH OF MARLIN FIDDLER CRAB

Benzo(a)anthracene	7.87E-02	4.44E-01	1.01E-04	5.70E-04	
Benzo(a)pyrene	1.65E-01	7.57E-01	2.12E-04	9.72E-04	
Benzo(b)fluoranthene	1.45E-01	6.94E-01	1.87E-04	8.91E-04	
Benzo(g,h,i)perylene	3.19E-01	1.22E+00	4.09E-04	1.56E-03	
Benzo(k)fluoranthene	1.06E-01	3.82E-01	1.36E-04	4.90E-04	
Cadmium	3.50E-01	1.06E+00	4.50E-04	1.37E-03	
Chrysene	2.99E-01	1.71E+00	3.85E-04	2.20E-03	
Dibenz(a,h)anthracene	3.27E-01	1.77E+00	4.20E-04	2.27E-03	
Endosulfan Sulfate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Endrin Aldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Endrin Ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Fluoranthene	1.74E-01	1.03E+00	2.23E-04	1.32E-03	
Fluorene	2.99E-02	1.03E-01	3.85E-05	1.32E-04	
gamma-Chlordane	2.38E-03	4.86E-03	3.06E-06	6.25E-06	
Indeno(1,2,3-cd)pyrene	3.24E-01	1.26E+00	4.16E-04	1.62E-03	
Nickel	1.56E+01	1.63E+01	2.00E-02	2.09E-02	
Phenanthrene	1.23E-01	6.96E-01	1.57E-04	8.93E-04	
Pyrene	2.48E-01	1.07E+00	3.18E-04	1.37E-03	
LPAH	3.20E-01	1.56E+00	4.12E-04	2.00E-03	
HPAH	2.25E+00	1.07E+01	2.89E-03	1.37E-02	
TOTAL PAHs	2.57E+00	1.22E+01	3.30E-03	1.57E-02	

TOTAL INTAKE

INTAKE = Sediment Intake + Food Intake

	TOTAL	TOTAL
	Average	RME
Chemical	Intake	Intake
2-Methylnaphthalene	8.25E-05	3.89E-04
4.4'-DDT	2.20E-06	5.09E-06
Acenaphthene	2.20E-06 6.54E-05	2.15E-04
· ·	1.05E-04	5.53E-04
Acenaphthylene		
Anthracene	9.65E-05	4.22E-04
Benzo(a)anthracene	1.71E-04	9.63E-04
Benzo(a)pyrene	3.46E-04	1.58E-03
Benzo(b)fluoranthene	3.02E-04	1.44E-03
Benzo(g,h,i)perylene	6.64E-04	2.53E-03
Benzo(k)fluoranthene	2.21E-04	7.95E-04
Cadmium	5.82E-04	1.77E-03
Chrysene	6.63E-04	3.79E-03
Dibenz(a,h)anthracene	6.81E-04	3.69E-03
Endosulfan Sulfate	2.31E-06	1.85E-06
Endrin Aldehyde	1.28E-06	5.52E-06
Endrin Ketone	1.01E-06	2.57E-06
Fluoranthene	3.62E-04	2.14E-03
Fluorene	6.24E-05	2.14E-04
gamma-Chlordane	3.58E-06	7.31E-06
Indeno(1,2,3-cd)pyrene	6.74E-04	2.63E-03
Nickel	4.22E-02	4.42E-02
Phenanthrene	2.55E-04	1.45E-03
Pyrene	5.16E-04	2.22E-03
LPAH	6.67E-04	3.24E-03
НРАН	4.68E-03	2.22E-02
TOTAL PAHs	5.35E-03	2.55E-02

#### TABLE H-7 INTAKE CALCULATIONS FOR SEDIMENT NORTH OF MARLIN SANDPIPER

			SANDPIPE	`		
SEDIMENT INGESTION						
INTAKE = (Sc * IR * AF * AUF) / (BW	")					
Parameter	Definition				Value	Reference
Intake	Intake of chemical (mg/kg	n-day)			calculated	
Sc	Sediment concentration (				see data page	
IR	Ingestion rate of sed (kg/	0 0,			2.10E-02	EPA, 1993
AF	Chemical Bioavailability i		unitless)		2.102-02	EPA, 1997
AUF	Area Use Factor	ii sediillelii (	uriiless)		1	EPA, 1997
BW					•	
BVV	Body weight (kg)				2.15E-01	Dunning, 1993
Chemical		Average Sc		RME Sc	Average Intake	RME Intake
Chemical		00		00	mano	mano
2-Methylnaphthalene		2.46E-02		1.16E-01	2.40E-03	1.13E-02
4,4'-DDT		9.52E-04		2.20E-03	9.30E-05	2.15E-04
Acenaphthene		1.95E-02		6.40E-02	1.90E-03	6.25E-03
Acenaphthylene		3.14E-02		1.65E-01	3.07E-03	1.61E-02
Anthracene		2.88E-02		1.26E-01	2.81E-03	1.23E-02
Benzo(a)anthracene		5.43E-02		3.06E-01	5.30E-03	2.99E-02
Benzo(a)pyrene				4.76E-01		
( )1 )		1.04E-01			1.02E-02	4.65E-02
Benzo(b)fluoranthene		9.02E-02		4.31E-01	8.81E-03	4.21E-02
Benzo(g,h,i)perylene		1.98E-01		7.55E-01	1.93E-02	7.37E-02
Benzo(k)fluoranthene		6.59E-02		2.37E-01	6.44E-03	2.31E-02
Cadmium		1.03E-01		3.13E-01	1.01E-02	3.06E-02
Chrysene		2.17E-01		1.24E+00	2.12E-02	1.21E-01
Dibenz(a,h)anthracene		2.03E-01		1.10E+00	1.98E-02	1.07E-01
Endosulfan Sulfate		1.80E-03		1.44E-03	1.76E-04	1.41E-04
Endrin Aldehyde		1.00E-03		4.30E-03	9.77E-05	4.20E-04
Endrin Ketone		7.85E-04		2.00E-03	7.67E-05	1.95E-04
Fluoranthene		1.08E-01		6.37E-01	1.05E-02	6.22E-02
Fluorene		1.86E-02		6.37E-02	1.82E-03	6.22E-03
gamma-Chlordane		4.05E-04		8.27E-04	3.96E-05	8.08E-05
Indeno(1,2,3-cd)pyrene		2.01E-01		7.85E-01	1.96E-02	7.67E-02
Nickel		1.73E+01		1.81E+01	1.69E+00	1.77E+00
Phenanthrene		7.61E-02		4.32E-01	7.43E-03	4.22E-02
Pyrene		1.54E-01		6.63E-01	1.50E-02	6.48E-02
LPAH		1.99E-01		9.67E-01	1.94E-02	9.44E-02
HPAH		1.40E+00		6.63E+00	1.36E-01	6.48E-01
TOTAL PAHs		1.40E+00 1.59E+00		7.60E+00	1.56E-01	7.42E-01
FOOD INGESTION						
INTAKE = ((Cc * IR * Dfc * AUF)/(BW	') + (Cw * IR * DFwa * AUF) /	(BW)				
Danamata.	Definition				Value	Deference
Parameter	Definition				Value	Reference
Intake	Intake of chemical (mg/kg	, ,,			calculated	
Cc	Crab concentration (mg/k	•			see FoodConc page	
Cw	Worm concentration (mg/	/kg)			see FoodConc page	
IR	Ingestion rate of of food (	kg/day)			1.08E-01	EPA, 1993
Dfc	Dietary fraction of crabs (				4.00E-01	prof. judgement
Dfw	Dietary fraction of worms	,			6.00E-01	prof. judgement
AUF	Area Use Factor	,			1	EPA, 1997
BW	Body weight (kg)				2.15E-01	Dunning, 1993
	Dody weight (kg)				2.13E-01	Darming, 1999
Chemical	Average Crab	RME Crab	Average Worm	RME Worm	Average Intake	RME Intake
O. C. Modi	Orab	Olab	TTOITI	77 01111	mano	mano
2-Methylnaphthalene	0.00E+00	0.00E+00	3.96E-02	1.87E-01	1.19E-02	5.63E-02
4,4'-DDT	3.83E-03	8.84E-03	7.62E-04	1.76E-03	9.99E-04	2.31E-03
Acenaphthene	0.00E+00	0.00E+00	5.06E-02	2.66E-01	1.52E-02	8.01E-02
Acenaphthylene	0.00E+00	0.00E+00	5.06E-02	2.66E-01	1.52E-02	8.01E-02
Anthracene	9.42E-02	4.12E-01	4.64E-02	2.03E-01	3.29E-02	1.44E-01
Benzo(a)anthracene	1.37E-01	7.74E-01	7.87E-02	4.44E-01	5.13E-02	2.89E-01
Benzo(a)pyrene	1.56E-02	7.14E-02	1.65E-01	7.57E-01	5.30E-02	2.42E-01
Benzo(b)fluoranthene	1.42E-01	6.77E-01	1.45E-01	6.94E-01	7.22E-02	3.45E-01
Benzo(g,h,i)perylene	0.00E+00	0.00E+00	3.19E-01	1.22E+00	9.61E-02	3.66E-01
Benzo(k)fluoranthene	0.00E+00	0.00E+00	1.06E-01	3.82E-01	3.20E-02	1.15E-01
Cadmium	0.00E+00	0.00E+00	3.50E-01	1.06E+00	1.06E-01	3.21E-01
Chrysene	2.80E-01	1.60E+00	2.99E-01	1.71E+00	1.47E-01	8.37E-01
Dibenz(a,h)anthracene	0.00E+00	0.00E+00	3.27E-01	1.77E+00	9.85E-02	5.34E-01
Disonz(a,n)anunacene	0.00L+00	J.00L+00	J.Z1 L-U1	1.772700	3.03L-02	0.04E 01

#### TABLE H-7 INTAKE CALCULATIONS FOR SEDIMENT NORTH OF MARLIN SANDPIPER

Endosulfan Sulfate	9.00E-03	7.20E-03	0.00E+00	0.00E+00	1.81E-03	1.45E-03	
Endrin Aldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Endrin Ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Fluoranthene	1.44E+00	8.50E+00	1.74E-01	1.03E+00	3.42E-01	2.02E+00	
Fluorene	0.00E+00	0.00E+00	2.99E-02	1.03E-01	9.03E-03	3.09E-02	
gamma-Chlordane	9.32E-04	1.90E-03	2.38E-03	4.86E-03	9.05E-04	1.85E-03	
Indeno(1,2,3-cd)pyrene	0.00E+00	0.00E+00	3.24E-01	1.26E+00	9.75E-02	3.81E-01	
Nickel	0.00E+00	0.00E+00	1.56E+01	1.63E+01	4.69E+00	4.91E+00	
Phenanthrene	0.00E+00	0.00E+00	1.23E-01	6.96E-01	3.69E-02	2.10E-01	
Pyrene	0.00E+00	0.00E+00	2.48E-01	1.07E+00	7.47E-02	3.22E-01	
LPAH	6.51E-01	3.16E+00	3.20E-01	1.56E+00	2.27E-01	1.10E+00	
HPAH	4.56E+00	2.17E+01	2.25E+00	1.07E+01	1.59E+00	7.57E+00	
TOTAL PAHs	5.21E+00	2.48E+01	2.57E+00	1.22E+01	1.82E+00	8.68E+00	

TOTAL INTAKE

INTAKE = Sediment Intake + Food Intake

	TOTAL	TOTAL	
	Average	RME	
Chemical	Intake	Intake	
2-Methylnaphthalene	1.43E-02	6.76E-02	
4,4'-DDT	1.09E-03	2.52E-03	
Acenaphthene	1.71E-02	8.63E-02	
Acenaphthylene	1.83E-02	9.62E-02	
Anthracene	3.57E-02	1.56E-01	
Benzo(a)anthracene	5.66E-02	3.19E-01	
Benzo(a)pyrene	6.31E-02	2.89E-01	
Benzo(b)fluoranthene	8.10E-02	3.87E-01	
Benzo(g,h,i)perylene	1.15E-01	4.40E-01	
Benzo(k)fluoranthene	3.84E-02	1.38E-01	
Cadmium	1.16E-01	3.51E-01	
Chrysene	1.68E-01	9.58E-01	
Dibenz(a,h)anthracene	1.18E-01	6.41E-01	
Endosulfan Sulfate	1.98E-03	1.59E-03	
Endrin Aldehyde	9.77E-05	4.20E-04	
Endrin Ketone	7.67E-05	1.95E-04	
Fluoranthene	3.52E-01	2.08E+00	
Fluorene	1.08E-02	3.71E-02	
gamma-Chlordane	9.44E-04	1.93E-03	
Indeno(1,2,3-cd)pyrene	1.17E-01	4.58E-01	
Nickel	6.38E+00	6.68E+00	
Phenanthrene	4.44E-02	2.52E-01	
Pyrene	8.98E-02	3.86E-01	
LPAH	2.47E-01	1.20E+00	
HPAH	1.73E+00	8.22E+00	
TOTAL PAHs	1.98E+00	9.42E+00	

## TABLE H-8 INTAKE CALCULATIONS FOR SEDIMENT NORTH OF MARLIN GREEN HERON

FOOD INGESTION						
INTAKE = ((Cf * IR * Dff	* AUF)/(BW) + (Cc * IR * DI	Fc * AUF) /	(RW))			
INTAIL = ((O) III DII	AUI )/(DVV) + (UC III D	10 AUI ji	(000))			
Parameter	Definition				Value	Reference
Intake	Intake of chemical (mg/kg	g-day)			calculated	
Cf	Fish concentration (mg/kg	g)			see FoodConc page	
Сс	Crab concentration (mg/k	.g)			see FoodConc page	
IR	Ingestion rate of of food (I	kg/day)			1.13E-01	EPA, 1993
DFf	Dietary fraction of fish (un				7.50E-01	Kent, 1986
DFc	Dietary fraction of crab (u				2.50E-01	Kent, 1986
AUF	Area Use Factor				1	EPA, 1997
BW	Body weight (kg)				3.75E-01	Dunning, 1993
<u>i</u>						
	Average	RME	Average	RME	Average	RME
Chemical	Fish	Fish	Crab	Crab	Intake	Intake
2-Methylnaphthalene	1.14E-01	5.39E-01	0.00E+00	0.00E+00	2.57E-02	1.21E-01
4,4'-DDT	5.52E-04	1.28E-03	3.83E-03	8.84E-03	4.11E-04	9.50E-04
Acenaphthene	1.55E-02	8.17E-02	0.00E+00	0.00E+00	3.50E-03	9.50E-04 1.84E-02
Acenaphthylene	1.55E-02	8.17E-02 8.17E-02	0.00E+00 0.00E+00	0.00E+00 0.00E+00	3.50E-03	1.84E-02 1.84E-02
Anthracene	2.42E-03	1.06E-02	9.42E-02	4.12E-01	3.50E-03 7.61E-03	3.33E-02
	2.42E-03 3.58E-02	2.02E-01	9.42E-02 1.37E-01	4.12E-01 7.74E-01	7.61E-03 1.84E-02	3.33E-02 1.04E-01
Benzo(a)anthracene		3.14E-01	1.37E-01 1.56E-02	7.74E-01 7.14E-02	1.84E-02 1.66E-02	7.60E-02
Benzo(a)pyrene	6.86E-02		1.56E-02 1.42E-01	7.14E-02 6.77E-01		
Benzo(b)fluoranthene	5.95E-02	2.84E-01			2.40E-02	1.15E-01
Benzo(g,h,i)perylene	1.31E-01	4.98E-01	0.00E+00	0.00E+00	2.94E-02	1.12E-01
Benzo(k)fluoranthene	4.35E-02	1.56E-01	0.00E+00	0.00E+00	9.79E-03	3.52E-02
Cadmium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chrysene	1.43E-01	8.18E-01	2.80E-01	1.60E+00	5.32E-02	3.04E-01
Dibenz(a,h)anthracene	1.34E-01	7.26E-01	0.00E+00	0.00E+00	3.01E-02	1.63E-01
Endosulfan Sulfate	0.00E+00	0.00E+00	9.00E-03	7.20E-03	6.75E-04	5.40E-04
Endrin Aldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Endrin Ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fluoranthene	7.13E-02	4.20E-01	1.44E+00	8.50E+00	1.24E-01	7.32E-01
Fluorene	9.21E-03	3.15E-02	0.00E+00	0.00E+00	2.07E-03	7.09E-03
gamma-Chlordane	6.08E-04	1.24E-03	9.32E-04	1.90E-03	2.07E-04	4.22E-04
ndeno(1,2,3-cd)pyrene	1.33E-01	5.18E-01	0.00E+00	0.00E+00	2.98E-02	1.17E-01
Nickel	9.34E-01	9.77E-01	0.00E+00	0.00E+00	2.10E-01	2.20E-01
Phenanthrene	3.77E-02	2.14E-01	0.00E+00	0.00E+00	8.48E-03	4.81E-02
Pyrene	1.02E-01	4.38E-01	0.00E+00	0.00E+00	2.29E-02	9.85E-02
LPAH	9.87E-02	4.79E-01	6.51E-01	3.16E+00	7.10E-02	3.45E-01
HPAH	9.21E-01	4.38E+00	4.56E+00	2.17E+01	5.49E-01	2.61E+00

2.48E+01

6.28E-01

2.99E+00

1.05E+00 5.01E+00 5.21E+00

TOTAL PAHs

### **TABLE H-9** ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SEDIMENT NORTH OF MARLIN FIDDLER CRAB

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Default

Intake TRV see Intake

Chemical	Average Intake	RME Intake	TRV Fiddler Crab	Average EHQ	RME EHQ
2-Methylnaphthalene	8.25E-05	3.89E-04			
4.4'-DDT	2.20E-06	5.09E-06	1.47E-01	1.50E-05	3.46E-05
Acenaphthene	6.54E-05	2.15E-04	1.47 ⊑-01	1.50=-05	3.46E-03
	1.05E-04	5.53E-04			
Acenaphthylene		5.53E-04 4.22E-04			
Anthracene	9.65E-05				
Benzo(a)anthracene	1.71E-04	9.63E-04			
Benzo(a)pyrene	3.46E-04	1.58E-03			
Benzo(b)fluoranthene	3.02E-04	1.44E-03			
Benzo(g,h,i)perylene	6.64E-04	2.53E-03			
Benzo(k)fluoranthene	2.21E-04	7.95E-04			
Cadmium	5.82E-04	1.77E-03	7.70E-01	7.56E-04	2.30E-03
Chrysene	6.63E-04	3.79E-03			
Dibenz(a,h)anthracene	6.81E-04	3.69E-03			
Endosulfan Sulfate	2.31E-06	1.85E-06			
Endrin Aldehyde	1.28E-06	5.52E-06	9.20E-02	1.40E-05	6.00E-05
Endrin Ketone	1.01E-06	2.57E-06	9.20E-02	1.10E-05	2.79E-05
Fluoranthene	3.62E-04	2.14E-03			
Fluorene	6.24E-05	2.14E-04			
gamma-Chlordane	3.58E-06	7.31E-06	4.60E+00	7.78E-07	1.59E-06
Indeno(1,2,3-cd)pyrene	6.74E-04	2.63E-03			
Nickel	4.22E-02	4.42E-02	1.70E+00	2.48E-02	2.60E-02
Phenanthrene	2.55E-04	1.45E-03			
Pyrene	5.16E-04	2.22E-03			
LPAH	6.67E-04	3.24E-03	6.56E+01	1.02E-05	4.94E-05
HPAH	4.68E-03	2.22E-02	9.31E+00	5.02E-04	2.39E-03
TOTAL PAHs	5.35E-03	2.55E-02	2.2.2	5:5= <b>2 V</b> .	

# TABLE H-10 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SEDIMENT NORTH OF MARLIN SANDPIPER

Ecological Hazard Quotient = Intake/TRV

Parameter Definition Default

Intake Intake of COPC (mg/kg-day) see Intake
TRV Toxicity Reference Value (mg/kg) see TRV summary page

TRV **Average RME Average** RME Chemical Intake Intake Sandpiper EHQ **EHQ** 2-Methylnaphthalene 1.43E-02 6.76E-02 4,4'-DDT 1.09E-03 2.52E-03 2.27E-01 4.81E-03 1.11E-02 Acenaphthene 8.63E-02 1.71E-02 Acenaphthylene 1.83E-02 9.62E-02 Anthracene 3.57E-02 1.56E-01 Benzo(a)anthracene 5.66E-02 3.19E-01 Benzo(a)pyrene 6.31E-02 2.89E-01 Benzo(b)fluoranthene 8.10E-02 3.87E-01 Benzo(g,h,i)perylene 1.15E-01 4.40E-01 Benzo(k)fluoranthene 3.84E-02 1.38E-01 Cadmium 1.16E-01 3.51E-01 1.47E+00 7.86E-02 2.39E-01 Chrysene 1.68E-01 9.58E-01 Dibenz(a,h)anthracene 1.18E-01 6.41E-01 Endosulfan Sulfate 1.98E-03 1.59E-03 Endrin Aldehyde 1.00E-02 9.77E-03 4.20E-02 9.77E-05 4.20E-04 Endrin Ketone 7.67E-05 1.95E-04 1.00E-02 7.67E-03 1.95E-02 Fluoranthene 2.08E+00 3.52E-01 Fluorene 1.08E-02 3.71E-02 gamma-Chlordane 1.93E-03 2.14E+00 9.01E-04 9.44E-04 4.41E-04 Indeno(1,2,3-cd)pyrene 1.17E-01 4.58E-01 Nickel 6.68E+00 6.71E+00 9.95E-01 6.38E+00 9.51E-01 Phenanthrene 4.44E-02 2.52E-01 8.98E-02 Pyrene 3.86E-01 LPAH 2.47E-01 1.20E+00 6.56E+01 3.76E-03 1.83E-02 HPAH 8.22E+00 8.83E-01 1.73E+00 9.31E+00 1.86E-01 TOTAL PAHs 1.98E+00 9.42E+00

## TABLE H-11 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SEDIMENT NORTH OF MARLIN GREEN HERON

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Intake TRV Default

see Intake

Chemical	Average Intake	RME Intake	TRV Green Heron	Average EHQ	RME EHQ	
2-Methylnaphthalene	2.57E-02	1.21E-01				
4,4'-DDT	4.11E-04	9.50E-04	2.27E-01	1.81E-03	4.19E-03	
Acenaphthene	3.50E-03	1.84E-02				
Acenaphthylene	3.50E-03	1.84E-02				
Anthracene	7.61E-03	3.33E-02				
Benzo(a)anthracene	1.84E-02	1.04E-01				
Benzo(a)pyrene	1.66E-02	7.60E-02				
Benzo(b)fluoranthene	2.40E-02	1.15E-01				
Benzo(g,h,i)perylene	2.94E-02	1.12E-01				
Benzo(k)fluoranthene	9.79E-03	3.52E-02				
Cadmium	0.00E+00	0.00E+00	1.47E+00			
Chrysene	5.32E-02	3.04E-01				
Dibenz(a,h)anthracene	3.01E-02	1.63E-01				
Endosulfan Sulfate	6.75E-04	5.40E-04				
Endrin Aldehyde	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	
Endrin Ketone	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	
Fluoranthene	1.24E-01	7.32E-01				
Fluorene	2.07E-03	7.09E-03				
gamma-Chlordane	2.07E-04	4.22E-04	2.14E+00	9.65E-05	1.97E-04	
Indeno(1,2,3-cd)pyrene	2.98E-02	1.17E-01				
Nickel	2.10E-01	2.20E-01	6.71E+00	3.13E-02	3.28E-02	
Phenanthrene	8.48E-03	4.81E-02				
Pyrene	2.29E-02	9.85E-02				
LPAH	7.10E-02	3.45E-01	6.56E+01	1.08E-03	5.26E-03	
HPAH	5.49E-01	2.61E+00	9.31E+00	5.90E-02	2.80E-01	
TOTAL PAHs	6.28E-01	2.99E+00				

### TABLE H-12 AVERAGE CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg)

# Cfood = Csed x BSAF (or BSAFor BCF with food chain multiplier)

where:

Cfood = Csed = BSAF BCF = Chemical Concentration in food (mg/kg dry)
Chemical Concentration in soil (mg/kg dry) Biota to Sediment Accumulation Factor (unitless)

Bioconcentration Factor (unitless)

Compound	Average Csed	Sediment to Worm	Worm Reference	Sediment to Crab	Crab Reference	Sediment to Fish	Fish Reference
	(mg/kg)	BSAF (	Concentration	BSAF	Concentration	BSAF	Concentration
2-Methylnaphthalene	2.46E-02		3.96E-02 EPA, 1999		0.00E+00	4.65E+00	1.14E-01 Brunson et al. (1998)
4,4'-DDT	9.52E-04		7.62E-04 BSAF DB	4.02E+00		5.80E-01	5.52E-04 WSDOH, 1995
Acenaphthene	1.95E-02	1.61E+00	3.14E-02 EPA, 1999		0.00E+00	0.495	9.65E-03 WSDOH, 1995
Acenaphthylene	3.14E-02	1.61E+00	5.06E-02 EPA, 1999		0.00E+00	0.495	1.55E-02 WSDOH, 1995
Anthracene	2.88E-02	1.61E+00	4.64E-02 EPA, 1999	3.27E+00	9.42E-02 BSAF DB	8.40E-02	2.42E-03 WSDOH, 1995
Benzo(a)anthracene	5.43E-02	1.45E+00	7.87E-02 EPA, 1999	2.53E+00	1.37E-01 BSAF DB	6.60E-01	3.58E-02 WSDOH, 1995
Benzo(a)pyrene	1.04E-01	1.59E+00	1.65E-01 EPA, 1999	1.50E-01	1.56E-02 BSAF DB	6.60E-01	6.86E-02 WSDOH, 1995
Benzo(b)fluoranthene	9.02E-02	1.61E+00	1.45E-01 EPA, 1999	1.57E+00	1.42E-01 BSAF DB	6.60E-01	5.95E-02 WSDOH, 1995
Benzo(g,h,i)perylene	1.98E-01	1.61E+00	3.19E-01 EPA, 1999		0.00E+00	6.60E-01	1.31E-01 WSDOH, 1995
Benzo(k)fluoranthene	6.59E-02	1.61E+00	1.06E-01 EPA, 1999		0.00E+00	6.60E-01	4.35E-02 WSDOH, 1995
Cadmium	1.03E-01	3.40E+00	3.50E-01 EPA, 1999		0.00E+00		0.00E+00
Chrysene	2.17E-01	1.38E+00	2.99E-01 EPA, 1999	1.29E+00	2.80E-01 BSAF DB	6.60E-01	1.43E-01 WSDOH, 1995
Dibenz(a,h)anthracene	2.03E-01	1.61E+00	3.27E-01 EPA, 1999		0.00E+00	6.60E-01	1.34E-01 WSDOH, 1995
Endosulfan Sulfate	1.80E-03		0.00E+00	5.00E+00	9.00E-03 BSAF DB		0.00E+00
Endrin Aldehyde	1.00E-03		0.00E+00		0.00E+00		0.00E+00
Endrin Ketone	7.85E-04		0.00E+00		0.00E+00		0.00E+00
Fluoranthene	1.08E-01	1.61E+00	1.74E-01 EPA, 1999	1.33E+01	1.44E+00 BSAF DB	6.60E-01	7.13E-02 WSDOH, 1995
Fluorene	1.86E-02	1.61E+00	2.99E-02 EPA, 1999		0.00E+00	4.95E-01	9.21E-03 WSDOH, 1995
gamma-Chlordane	4.05E-04	5.88E+00	2.38E-03 BSAF DB	2.30E+00	9.32E-04 BSAF DB	1.50E+00	6.08E-04 BSAF DB
Indeno(1,2,3-cd)pyrene	2.01E-01	1.61E+00	3.24E-01 EPA, 1999		0.00E+00	6.60E-01	1.33E-01 WSDOH, 1995
Nickel	1.73E+01	9.00E-01	1.56E+01 EPA, 1999		0.00E+00	5.40E-02	9.34E-01 Max value from Calcasieu RI
Phenanthrene	7.61E-02	1.61E+00	1.23E-01 EPA, 1999		0.00E+00	4.95E-01	3.77E-02 WSDOH, 1995
Pyrene	1.54E-01	1.61E+00	2.48E-01 EPA, 1999		0.00E+00	6.60E-01	1.02E-01 WSDOH, 1995
LPAH	1.99E-01		3.20E-01 EPA, 1999	3.27E+00	6.51E-01 max PAH	4.96E-01	9.87E-02 WSDOH, 1995
HPAH	1.40E+00	1.61E+00	2.25E+00 EPA, 1999	3.27E+00	4.56E+00 max PAH	6.60E-01	9.21E-01 WSDOH, 1995
TOTAL PAHs	1.59E+00	1.61E+00	2.57E+00 EPA, 1999	3.27E+00	5.21E+00 max PAH	6.60E-01	1.05E+00 WSDOH, 1995

<sup>\*</sup> For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

### TABLE H-13 RME CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg)

# Cfood = Csed x BSAF (or BSAFor BCF with food chain multiplier)

where:

Cfood = Csed = BSAF BCF = Chemical Concentration in food (mg/kg dry)
Chemical Concentration in soil (mg/kg dry) Biota to Sediment Accumulation Factor (unitless)

Bioconcentration Factor (unitless)

Compound	RME Csed	Sediment to Worm	Worm Reference	Sediment to Crab	Crab Reference	Sediment to Fish	Fish Reference
	(mg/kg)	BSAF	Concentration	BSAF	Concentration	BSAF	Concentration
2-Methylnaphthalene	1.16E-01	1.61E+00	1.87E-01 EPA, 1999		0.00E+00	4.65E+00	5.39E-01 Brunson et al. (1998)
4,4'-DDT	2.20E-03	8.00E-01	1.76E-03 BSAF DB	4.02E+00	8.84E-03 BSAF DB	5.80E-01	1.28E-03 WSDOH, 1995
Acenaphthene	6.40E-02	1.61E+00	1.03E-01 EPA, 1999		0.00E+00	0.495	3.17E-02 WSDOH, 1995
Acenaphthylene	1.65E-01	1.61E+00	2.66E-01 EPA, 1999		0.00E+00	0.495	8.17E-02 WSDOH, 1995
Anthracene	1.26E-01	1.61E+00	2.03E-01 EPA, 1999	3.27E+00	4.12E-01 BSAF DB	8.40E-02	1.06E-02 WSDOH, 1995
Benzo(a)anthracene	3.06E-01	1.45E+00	4.44E-01 EPA, 1999	2.53E+00	7.74E-01 BSAF DB	6.60E-01	2.02E-01 WSDOH, 1995
Benzo(a)pyrene	4.76E-01	1.59E+00	7.57E-01 EPA, 1999	1.50E-01	7.14E-02 BSAF DB	6.60E-01	3.14E-01 WSDOH, 1995
Benzo(b)fluoranthene	4.31E-01	1.61E+00	6.94E-01 EPA, 1999	1.57E+00	6.77E-01 BSAF DB	6.60E-01	2.84E-01 WSDOH, 1995
Benzo(g,h,i)perylene	7.55E-01	1.61E+00	1.22E+00 EPA, 1999		0.00E+00	6.60E-01	4.98E-01 WSDOH, 1995
Benzo(k)fluoranthene	2.37E-01	1.61E+00	3.82E-01 EPA, 1999		0.00E+00	6.60E-01	1.56E-01 WSDOH, 1995
Cadmium	3.13E-01	3.40E+00	1.06E+00 EPA, 1999		0.00E+00		0.00E+00
Chrysene	1.24E+00	1.38E+00	1.71E+00 EPA, 1999	1.29E+00	1.60E+00 BSAF DB	6.60E-01	8.18E-01 WSDOH, 1995
Dibenz(a,h)anthracene	1.10E+00	1.61E+00	1.77E+00 EPA, 1999		0.00E+00	6.60E-01	7.26E-01 WSDOH, 1995
Endosulfan Sulfate	1.44E-03		0.00E+00	5.00E+00	7.20E-03 BSAF DB		0.00E+00
Endrin Aldehyde	4.30E-03		0.00E+00		0.00E+00		0.00E+00
Endrin Ketone	2.00E-03		0.00E+00		0.00E+00		0.00E+00
Fluoranthene	6.37E-01	1.61E+00	1.03E+00 EPA, 1999	1.33E+01	8.50E+00 BSAF DB	6.60E-01	4.20E-01 WSDOH, 1995
Fluorene	6.37E-02	1.61E+00	1.03E-01 EPA, 1999		0.00E+00	4.95E-01	3.15E-02 WSDOH, 1995
gamma-Chlordane	8.27E-04	5.88E+00	4.86E-03 BSAF DB	2.30E+00	1.90E-03 BSAF DB	1.50E+00	1.24E-03 BSAF DB
Indeno(1,2,3-cd)pyrene	7.85E-01	1.61E+00	1.26E+00 EPA, 1999		0.00E+00	6.60E-01	5.18E-01 WSDOH, 1995
Nickel	1.81E+01	9.00E-01	1.63E+01 EPA, 1999		0.00E+00	5.40E-02	9.77E-01 Max value from Calcasieu R
Phenanthrene	4.32E-01	1.61E+00	6.96E-01 EPA, 1999		0.00E+00	4.95E-01	2.14E-01 WSDOH, 1995
Pyrene	6.63E-01	1.61E+00	1.07E+00 EPA, 1999		0.00E+00	6.60E-01	4.38E-01 WSDOH, 1995
LPAH	9.67E-01	1.61E+00	1.56E+00 EPA, 1999	3.27E+00	3.16E+00 max PAH	4.96E-01	4.79E-01 WSDOH, 1995
HPAH	6.63E+00	1.61E+00	1.07E+01 EPA, 1999	3.27E+00	2.17E+01 max PAH	6.60E-01	4.38E+00 WSDOH, 1995
TOTAL PAHs	7.60E+00	1.61E+00	1.22E+01 EPA, 1999	3.27E+00	2.48E+01 max PAH	6.60E-01	5.01E+00 WSDOH, 1995

#### Notes:

<sup>\*</sup> For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

# TABLE I-1 EXPOSURE POINT CONCENTATION (mg/kg) POND SEDIMENT

Parameter	Average	95% UCL	Statistic Used
4,4'-DDD	6.96E-03	6.76E-04	RME EPC is max detect*
4,4'-DDT	4.16E-03	1.57E-03	RME EPC is max detect*
Benzo(b)fluoranthene	4.77E-02	1.06E-01	RME EPC is max detect
Benzo(g,h,i)perylene	2.40E-02	1.35E-01	RME EPC is max detect
Benzo(k)fluoranthene	5.27E-02	1.30E-01	RME EPC is max detect
Cadmium	1.47E-01	2.70E-01	RME EPC is max detect
Chrysene	9.50E-03	2.57E-02	RME EPC is max detect
Nickel	1.63E+01	2.06E+01	RME EPC is max detect
Pyrene	1.47E-02	2.65E-02	RME EPC is max detect
LPAHs			
HPAH	1.49E-01	4.23E-01	
TOTAL PAHs	1.49E-01	4.23E-01	

### Notes:

\*The maximum detected value is sometimes lower than the average since the reporting limit was used as a proxy value when it was not detected and because J flag data were used in the risk assessment.

# TABLE I-2 TOXICITY REFERENCE VALUES

	Canitalla			Canitalla																	
	Capitella capitata			Capitella capitata			Fiddler Crab			Black Drum			Spotted seatrout			Sandpiper			Green heron		
Parameter	(mg/kg)	Ref.	Comments	(mg/kg)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments	(mg/kgBW-day)	Ref.	Comments
																		Highest bounded NOAEL			Highest bounded NOAEL
																		for growth and			for growth and
																		reproduction lower than the lowest bounded			reproduction lower than the lowest bounded LOAEL for
																		LOAEL for reproduction.			reproduction, growth, and
4.4'-DDD	0.001	SQUIRT	ERL	0.007	SQUIRT	ERM	0.147	EPA 2007a	mammalian TRV for soil	0.147	EPA 2007a	mammalian TRV for soil	0.147	EPA. 2007a	mammalian TRV for soil	0.227	EPA. 2007a		0.227	EPA. 2007a	survival
4,4-000	0.001	OQUIICI	LIKE	0.007	OQUIRT	LIXIVI	0.147	LI A, 2007a	mammanan nv ioi son	0.147	LI A, 2007a	mammanan nivi idi soli	0.147	Li A, 2007a	mammanan mv ioi son	0.221	L1 A, 2007a	Highest bounded NOAEL		LI A, 2007a	Highest bounded NOAEL
																		for growth and			for growth and
																		reproduction lower than			reproduction lower than the
																		the lowest bounded			lowest bounded LOAEL for
																		LOAEL for reproduction,			reproduction, growth, and
4,4'-DDT	0.001	SQUIRT	ERL	0.007	SQUIRT	ERM	0.147	EPA, 2007a	mammalian TRV for soil	0.147	EPA, 2007a	mammalian TRV for soil	0.147	EPA, 2007a	mammalian TRV for soil	0.227	EPA, 2007a	growth, and survival	0.227	EPA, 2007a	survival
Benzo(b)fluoranthene	1.8	SQUIRT	AET	1.8	SQUIRT	AET															
Benzo(g,h,i)perylene	0.67	SQUIRT	AET	0.67	SQUIRT	AET															
Benzo(k)fluoranthene	1.8	SQUIRT	AET	1.8	SQUIRT	AET															
																		Geometric mean of			Geometric mean of
		0011107	<b>5</b> 0.		0011107	5514		5D4 00051	" TD\(( "	. ==		" TD\// "						NOAEL values for			NOAEL values for
Cadmium	1.2	SQUIRT	ERL ERL	9.6	SQUIRT	ERM ERM	0.77	EPA, 2005b	mammalian TRV for soil	0.77	EPA, 2005b	mammalian TRV for soil	0.77	EPA, 2005b	mammalian TRV for soil	1.47	EPA, 1999	reproduction and growth	1.47	EPA, 1999	reproduction and growth
Chrysene	0.384	SQUIRT	EKL	2.8	SQUIRT	ERM												Highest bounded NOAEL			Highest bounded NOAEL
																		for growth and			for growth and
																		reproduction lower than			reproduction lower than the
																		the lowest bounded			lowest bounded LOAEL for
																		LOAEL for reproduction,			reproduction, growth, and
Nickel	20.9	SQUIRT	ERL	51.6	SQUIRT	ERM	1.7	EPA. 2007d	mammalian TRV for soil	1.7	EPA. 2007d	mammalian TRV for soil	1.7	EPA, 2007d	mammalian TRV for soil	6.71	EPA, 2007d		6.71	EPA, 2007d	
Pyrene	0.665	SQUIRT	ERL	2.6	SQUIRT	ERM		,			,			,			,	3		,	
•	Ì																				
LPAH	0.552	SQUIRT	ERL	3.162	SQUIRT	ERM	65.6	EPA, 2007b	mammalian TRV for soil	65.6	EPA, 2007b	mammalian TRV for soil	65.6	EPA, 2007b	mammalian TRV for soil	65.6	EPA, 2007b	mammalian TRV for soil	65.6	EPA, 2007b	mammalian TRV for soil
									midpoint between NOAEL			midpoint between			midpoint between NOAEL			midpoint between NOAEL			midpoint between NOAEL
									and LOAEL for soil			NOAEL and LOAEL for			and LOAEL for soil			and LOAEL for soil			and LOAEL for soil
HPAH	1.7	SQUIRT		9.6	SQUIRT	ERM	9.31	EPA, 2007b	mammalian TRV	9.31	EPA, 2007b	soil mammalian TRV	9.31	EPA, 2007b	mammalian TRV	9.31	EPA, 2007b	mammalian TRV	9.31	EPA, 2007b	mammalian TRV
TOTAL PAHs	4.022	SQUIRT	ERL	44.792	SQUIRT	ERM															

Notes: ERL -- Effects Range-Low AET -- Apparent Effects Threshold TEL -- Threshold Effects Level

EPA, 2007a -- DDT
EPA, 2007b -- PAHs
EPA, 2007c -- Copper
EPA, 2007d -- Nickel
EPA, 2007f -- Zinc
EPA, 2005f -- Selenium
EPA, 2005a -- Antimony
EPA, 2005c -- Chromium
EPA, 2005d -- Vanadium
EPA, 2005c -- Lead
EPA, 2005f -- Dieldrin
EPA, 2005f -- Dieldrin
EPA, 2005g -- Barium

## TABLE I-3 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR POND SEDIMENT **CAPITELLA CAPITATA**

Ecological Hazard Quotient = Sc/TRV

Definition
Soil Concentration (mg/kg)
Toxicity Reference Value (mg/kg) Parameter Sc TRV Default see below

Chemical	Average Sc	RME Sc	TRV capitella capitata	Average EHQ	RME EHQ
4,4'-DDD	6.96E-03	6.76E-04	1.00E-03	6.96E+00	6.76E-01
4,4'-DDT	4.16E-03	1.57E-03	1.00E-03	4.16E+00	1.57E+00
Benzo(b)fluoranthene	4.77E-02	1.06E-01	1.80E+00	2.65E-02	5.89E-02
Benzo(g,h,i)perylene	2.40E-02	1.35E-01	6.70E-01	3.58E-02	2.01E-01
Benzo(k)fluoranthene	5.27E-02	1.30E-01	1.80E+00	2.93E-02	7.22E-02
Cadmium	1.47E-01	2.70E-01	1.20E+00	1.23E-01	2.25E-01
Chrysene	9.50E-03	2.57E-02	3.84E-01	2.47E-02	6.69E-02
Nickel	1.63E+01	2.06E+01	2.09E+01	7.81E-01	9.86E-01
Pyrene	1.47E-02	2.65E-02	6.65E-01	2.21E-02	3.98E-02
LPAH			5.52E-01		
HPAH	1.49E-01	4.23E-01	1.70E+00	8.74E-02	2.49E-01
TOTAL PAHs	1.49E-01	4.23E-01	4.02E+00	3.69E-02	1.05E-01

# TABLE I-4 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR POND SEDIMENT CAPITELLA CAPITATA -- MIDPOINT BETWEEN ERL AND ERM COMPARISON

Ecological Hazard Quotient = Sc/TRV

Definition
Soil Concentration (mg/kg)
Toxicity Reference Value (mg/kg) Parameter Sc TRV Default see below

Chemical	Average Sc	RME Sc	TRV capitella capitata	Average EHQ	RME EHQ
	•				
4,4'-DDD	6.96E-03	6.76E-04	4.00E-03	1.74E+00	1.69E-01
4,4'-DDT	4.16E-03	1.57E-03	4.00E-03	1.04E+00	3.93E-01
Benzo(b)fluoranthene	4.77E-02	1.06E-01	1.80E+00	2.65E-02	5.89E-02
Benzo(g,h,i)perylene	2.40E-02	1.35E-01	6.70E-01	3.58E-02	2.01E-01
Benzo(k)fluoranthene	5.27E-02	1.30E-01	1.80E+00	2.93E-02	7.22E-02
Cadmium	1.47E-01	2.70E-01	5.40E+00	2.73E-02	5.00E-02
Chrysene	9.50E-03	2.57E-02	1.59E+00	5.97E-03	1.61E-02
Nickel	1.63E+01	2.06E+01	3.63E+01	4.50E-01	5.68E-01
Pyrene	1.47E-02	2.65E-02	1.63E+00	9.00E-03	1.62E-02
LPAH			1.86E+00		
HPAH	1.49E-01	4.23E-01	5.65E+00	2.63E-02	7.49E-02
TOTAL PAHs	1.49E-01	4.23E-01	2.44E+01	6.09E-03	1.73E-02

# TABLE I-5 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR POND SEDIMENT CAPITELLA CAPITATA -- ERM COMPARISON

Ecological Hazard Quotient = Sc/TRV

Definition
Soil Concentration (mg/kg)
Toxicity Reference Value (mg/kg) Parameter Sc TRV Default see below

Chemical	Average Sc	RME Sc	TRV capitella capitata	Average EHQ	RME EHQ
4,4'-DDD	6.96E-03	6.76E-04	7.00E-03	9.94E-01	9.66E-02
4,4'-DDT	4.16E-03	1.57E-03	7.00E-03	5.94E-01	2.24E-01
Benzo(b)fluoranthene	4.77E-02	1.06E-01	1.80E+00	2.65E-02	5.89E-02
Benzo(g,h,i)perylene	2.40E-02	1.35E-01	6.70E-01	3.58E-02	2.01E-01
Benzo(k)fluoranthene	5.27E-02	1.30E-01	1.80E+00	2.93E-02	7.22E-02
Cadmium	1.47E-01	2.70E-01	9.60E+00	1.53E-02	2.81E-02
Chrysene	9.50E-03	2.57E-02	2.80E+00	3.39E-03	9.18E-03
Nickel	1.63E+01	2.06E+01	5.16E+01	3.16E-01	3.99E-01
Pyrene	1.47E-02	2.65E-02	2.60E+00	5.65E-03	1.02E-02
LPAH			3.16E+00		
HPAH	1.49E-01	4.23E-01	9.60E+00	1.55E-02	4.41E-02
TOTAL PAHs	1.49E-01	4.23E-01	4.48E+01	3.32E-03	9.45E-03

# TABLE I-6 INTAKE CALCULATIONS FOR POND SEDIMENT FIDDLER CRAB

		FID	DLER CRAB		
SEDIMENT INGESTIC	NI.				
SEDIMENT INGESTIC	NA CONTRACTOR OF THE CONTRACTO				
INTAKE = (Sc * IR * A	F * AUF) / (BW)				
Parameter	Definition			Value	Reference
Intake	Intake of chemical (mg/kg-day)			calculated	
Sc	Sed concentration (mg/kg)			see data page	
IR	Ingestion rate of sed (kg/day)			1.16E-05	Cammen, 1979
AF	Chemical Bioavailability in sedimer	nt (unitless)		1	EPA, 1997
AUF BW	Area Use Factor			1 9.00E-03	EPA, 1997
DVV	Body weight (kg)			9.001-03	based on width/length eq.
	Average		RME	Average	RME
Chemical	Sc		Sc	Intake	Intake
			. = . =		
4,4'-DDD 4,4'-DDT	6.96E-03 4.16E-03		6.76E-04 1.57E-03	8.93E-06 5.34E-06	8.68E-07 2.02E-06
Benzo(b)fluoranthene	4.77E-02		1.06E-01	6.12E-05	1.36E-04
Benzo(g,h,i)perylene	2.40E-02		1.35E-01	3.08E-05	1.73E-04
Benzo(k)fluoranthene	5.27E-02		1.30E-01	6.77E-05	1.67E-04
Cadmium	1.47E-01		2.70E-01	1.89E-04	3.47E-04
Chrysene	9.50E-03		2.57E-02	1.22E-05	3.30E-05
Nickel	1.63E+01		2.06E+01	2.10E-02	2.65E-02
Pyrene	1.47E-02		2.65E-02	1.89E-05	3.40E-05
LPAH					
HPAH	1.49E-01		4.23E-01	1.91E-04	5.44E-04
TOTAL PAHs	1.49E-01		4.23E-01	1.91E-04	5.44E-04
FOOD INGESTION					
INTAKE = (Ci * IR * DF	:: * ALIE\ / (D\A/)				
INTAKE = (CI IK DI	T AUF)/(BW)				
Parameter	Definition			Value	Reference
Intake	Intake of chemical (mg/kg-day)			calculated	
Ci	Invertebrate concentration (mg/kg)			see FoodConc page	
IR D.	Ingestion rate of of food (kg/day)	- 141 N		1.16E-05	Cammen, 1979
Dfi	Dietary fraction of invertebrates (un	nitiess)		1.00E+00	TPWD website
AUF BW	Area Use Factor Body weight (kg)			1 9.00E-03	EPA, 1997 based on width/length eq.
DW .	body weight (kg)			9.00E-03	based on width/length eq.
		Average	RME	Average	RME
Chemical		Invertebrate		Intake	Intake
4 41 000		5 505 00	5.445.04	7.455.00	0.055.07
4,4'-DDD		5.56E-03	5.41E-04	7.15E-06	6.95E-07
4,4'-DDT Benzo(b)fluoranthene		3.33E-03 7.67E-02	1.26E-03 1.71E-01	4.27E-06 9.86E-05	1.61E-06 2.19E-04
Benzo(g,h,i)perylene		3.86E-02	2.17E-01	4.96E-05	2.79E-04
Benzo(k)fluoranthene		8.48E-02	2.09E-01	1.09E-04	2.69E-04
Cadmium		5.00E-01	9.18E-01	6.43E-04	1.18E-03
Chrysene		3.26E-02	8.82E-02	4.19E-05	1.13E-04
Nickel		1.47E+01	1.85E+01	1.89E-02	2.38E-02
Pyrene		2.37E-02	4.27E-02	3.04E-05	5.48E-05
LPAH					
HPAH		2.39E-01	6.81E-01	3.07E-04	8.75E-04
TOTAL PAHs		2.39E-01	6.81E-01	3.07E-04	8.75E-04
TOTAL INTAKE					
INTAKE = Sediment In	take + Food Intake				
	nano i i oca intano				
	nane : 1 dea mane			TOTAL	TOTAL
	ilano i i soci inano				TOTAL RME
Chemical				TOTAL Average Intake	
	and 1, occ many			Average Intake	RME Intake
4,4'-DDD	and or rose many			Average Intake 1.61E-05	RME Intake 1.56E-06
4,4'-DDD 4,4'-DDT	and or rose many			Average Intake 1.61E-05 9.62E-06	RME Intake 1.56E-06 3.63E-06
4,4'-DDD 4,4'-DDT Benzo(b)fluoranthene	and or rose mane			Average Intake 1.61E-05 9.62E-06 1.60E-04	RME Intake 1.56E-06 3.63E-06 3.55E-04
4,4'-DDD 4,4'-DDT Benzo(b)fluoranthene Benzo(g,h,i)perylene	and or rose mane			Average Intake 1.61E-05 9.62E-06 1.60E-04 8.04E-05	RME Intake 1.56E-06 3.63E-06 3.55E-04 4.53E-04
4,4'-DDD 4,4'-DDT Benzo(b)fluoranthene				Average Intake 1.61E-05 9.62E-06 1.60E-04	RME Intake 1.56E-06 3.63E-06 3.55E-04
4,4'-DDD 4,4'-DDT Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene				Average Intake  1.61E-05 9.62E-06 1.60E-04 8.04E-05 1.77E-04	RME Intake 1.56E-06 3.63E-06 3.55E-04 4.53E-04 4.36E-04
4,4'-DDD 4,4'-DDT Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Cadmium				Average Intake  1.61E-05 9.62E-06 1.60E-04 8.04E-05 1.77E-04 8.32E-04	RME Intake 1.56E-06 3.63E-06 3.55E-04 4.53E-04 4.36E-04 1.53E-03
4,4'-DDD 4,4'-DDT Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Cadmium Chrysene				Average Intake  1.61E-05 9.62E-06 1.60E-04 8.04E-05 1.77E-04 8.32E-04 5.41E-05	RME Intake  1.56E-06 3.63E-06 3.55E-04 4.53E-04 4.36E-04 1.53E-03 1.46E-04
4,4'-DDD 4,4'-DDT Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Cadmium Chrysene Nickel				Average Intake  1.61E-05 9.62E-06 1.60E-04 8.04E-05 1.77E-04 8.32E-04 5.41E-05 3.98E-02	RME Intake 1.56E-06 3.63E-06 3.55E-04 4.53E-04 4.36E-04 1.53E-03 1.46E-04 5.03E-02
4,4'-DDD 4,4'-DDT Benzo(b)fluoranthene Benzo(k)fluoranthene Cadmium Chrysene Nickel Pyrene				Average Intake  1.61E-05 9.62E-06 1.60E-04 8.04E-05 1.77E-04 8.32E-04 5.41E-05 3.98E-02	RME Intake 1.56E-06 3.63E-06 3.55E-04 4.53E-04 4.36E-04 1.53E-03 1.46E-04 5.03E-02

# TABLE I-7 INTAKE CALCULATIONS FOR POND SEDIMENT SANDPIPER

SEDIMENT INGESTION							
INTAKE = (Sc * IR * AF * AUF) / (BW)							
Parameter	Definition				Value	Reference	
Intake	Intake of chemical (mg/kg				calculated		
Sc	Sediment concentration (	ng/kg)			see data page		
IR	Ingestion rate of sed (kg/d	day)			2.10E-02	EPA, 1993	
AF	Chemical Bioavailability in	n sediment (u	unitless)		1	EPA, 1997	
AUF	Area Use Factor				1	EPA, 1997	
BW	Body weight (kg)				2.15E-01	Dunning, 1993	
		Average		RME	Average	RME	
Chemical		Sc		Sc	Intake	Intake	
4.4'-DDD		6.96E-03		6.76E-04	6.79E-04	6.60E-05	
4,4'-DDT		4.16E-03		1.57E-03	4.06E-04	1.53E-04	
Benzo(b)fluoranthene		4.77E-02		1.06E-01	4.66E-03	1.04E-02	
Benzo(g,h,i)perylene		2.40E-02		1.35E-01	2.34E-03	1.32E-02	
Benzo(k)fluoranthene		5.27E-02		1.30E-01	5.15E-03	1.27E-02	
Cadmium		1.47E-01		2.70E-01	1.44E-02	2.64E-02	
Chrysene		9.50E-03		2.57E-02	9.28E-04	2.51E-03	
Nickel		1.63E+01		2.06E+01	1.59E+00	2.01E+00	
Pyrene		1.47E-02		2.65E-02	1.44E-03	2.59E-03	
LPAH HPAH		1.405.04		4 22E 04	4.455.00	4.125.02	
TOTAL PAHs		1.49E-01 1.49E-01		4.23E-01 4.23E-01	1.45E-02 1.45E-02	4.13E-02 4.13E-02	
FOOD INGESTION							
INTAKE = ((Cc * IR * Dfc * AUF)/(BW) +	+ (Cw * IR * DFwa * AUF) /	(BW)					
	- a						
Parameter	Definition	1. 3			Value	Reference	
Intake Cc	Intake of chemical (mg/kg Crab concentration (mg/kg				calculated see FoodConc page		
Cw	Worm concentration (mg/				see FoodConc page		
IR	Ingestion rate of of food (				1.08E-01	EPA, 1993	
Dfc	Dietary fraction of crabs (				4.00E-01	prof. judgement	
Dfw	Dietary fraction of worms				6.00E-01	prof. judgement	
AUF	Area Use Factor	(41111000)			1	EPA, 1997	
BW	Body weight (kg)				2.15E-01	Dunning, 1993	
	Average	RME	Average	RME	Average	RME	
Chemical	Crab	Crab	Worm	Worm	Intake	Intake	
4,4'-DDD	2.80E-02	2.72E-03	5.56E-03	5.41E-04	7.30E-03	7.09E-04	
4,4'-DDT	1.67E-02	6.31E-03	3.33E-03	1.26E-03	4.36E-03	1.65E-03	
Benzo(b)fluoranthene	7.48E-02	1.66E-01	7.67E-02	1.71E-01	3.82E-02	8.49E-02	
Benzo(g,h,i)perylene	3.76E-02		3.86E-02	2.17E-01	1.92E-02	1.08E-01	
Benzo(k)fluoranthene	8.27E-02		8.48E-02	2.09E-01	4.22E-02	1.04E-01	
Cadmium	0.00E+00	0.00E+00	5.00E-01	9.18E-01			
Chrysene			-		1.51E-01	2.77E-01	
	1.23E-02	3.32E-02	3.26E-02	8.82E-02		2.77E-01 3.32E-02	
Nickel	1.23E-02 0.00E+00	3.32E-02 0.00E+00	3.26E-02 1.47E+01		1.51E-01		
				8.82E-02	1.51E-01 1.23E-02	3.32E-02	
Nickel Pyrene LPAH	0.00E+00	0.00E+00	1.47E+01	8.82E-02 1.85E+01	1.51E-01 1.23E-02 4.43E+00	3.32E-02 5.59E+00	
Nickel Pyrene LPAH HPAH	0.00E+00 0.00E+00 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01	3.32E-02 5.59E+00 1.29E-02 4.83E-01	
Nickel Pyrene LPAH	0.00E+00 0.00E+00 4.86E-01	0.00E+00 0.00E+00	1.47E+01 2.37E-02	8.82E-02 1.85E+01 4.27E-02	1.51E-01 1.23E-02 4.43E+00 7.13E-03	3.32E-02 5.59E+00 1.29E-02	
Nickel Pyrene LPAH HPAH	0.00E+00 0.00E+00 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01	3.32E-02 5.59E+00 1.29E-02 4.83E-01	
Nickel Pyrene LPAH HPAH TOTAL PAHs	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01	3.32E-02 5.59E+00 1.29E-02 4.83E-01	
Nickel Pyrene LPAH HPAH TOTAL PAHs	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01	
Nickel Pyrene LPAH HPAH TOTAL PAHs	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01	
Nickel Pyrene LPAH HPAH TOTAL PAHs  TOTAL INTAKE INTAKE = Sediment Intake + Food Intak	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01 TOTAL RME Intake	
Nickel Pyrene LPAH HPAH TOTAL PAHs  TOTAL INTAKE INTAKE = Sediment Intake + Food Intak  Chemical 4,4-DDD	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01  TOTAL Average Intake 7.98E-03	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01 TOTAL RME Intake 7.75E-04	
Nickel Pyrene LPAH HPAH TOTAL PAHS  TOTAL INTAKE  INTAKE = Sediment Intake + Food Intak  Chemical 4,4'-DDD 4,4'-DDT	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01 TOTAL Average Intake 7.98E-03 4.77E-03	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01 TOTAL RME Intake 7.75E-04 1.80E-03	
Nickel Pyrene LPAH HPAH TOTAL PAHs  TOTAL INTAKE  INTAKE = Sediment Intake + Food Intak  Chemical 4,4'-DDD 4,4'-DDT Benzo(b)fluoranthene	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01  TOTAL Average Intake 7.98E-03 4.77E-03 4.28E-02	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01 TOTAL RME Intake 7.75E-04 1.80E-03 9.52E-02	
Nickel Pyrene LPAH HPAH TOTAL PAHs  TOTAL INTAKE INTAKE = Sediment Intake + Food Intak  Chemical 4,4'-DDD Benzo(b)fluoranthene Benzo(g,h,i)perylene	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01 TOTAL Average Intake 7.98E-03 4.77E-03	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01 TOTAL RME Intake 7.75E-04 1.80E-03	
Nickel Pyrene LPAH HPAH TOTAL PAHs  TOTAL INTAKE  INTAKE = Sediment Intake + Food Intak  Chemical  4,4'-DDD  4,4'-DDT  Benzo(b)fluoranthene	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01  TOTAL Average Intake 7.98E-03 4.77E-03 4.28E-02 2.15E-02	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01 TOTAL RME Intake 7.75E-04 1.80E-03 9.52E-02 1.21E-01	
Nickel Pyrene LPAH HPAH TOTAL PAHs  TOTAL INTAKE  INTAKE = Sediment Intake + Food Intak  Chemical  4.4'-DDD 4,4'-DDT Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01 1.70E-01  TOTAL Average Intake 7.98E-03 4.77E-03 4.28E-02 2.15E-02 4.73E-02	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01 TOTAL RME Intake 7.75E-04 1.80E-03 9.52E-02 1.21E-01 1.17E-01	
Nickel Pyrene LPAH HPAH TOTAL PAHs  TOTAL INTAKE  INTAKE = Sediment Intake + Food Intak  Chemical  4,4'-DDD 4,4'-DDT Benzo(g,h,i)perylene Benzo(g,hi)perylene Benzo(k)fluoranthene Cadmium	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01 1.70E-01  TOTAL Average Intake 7.98E-03 4.77E-03 4.28E-02 2.15E-02 4.73E-02 1.65E-01	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01 TOTAL RME Intake 7.75E-04 1.80E-03 9.52E-02 1.21E-01 1.17E-01 3.03E-01	
Nickel Pyrene LPAH HPAH TOTAL PAHs  TOTAL INTAKE  INTAKE = Sediment Intake + Food Intak  Chemical  4,4'-DDD Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Cadmium Chrysene	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01 1.70E-01  TOTAL Average Intake 7.98E-03 4.77E-03 4.28E-02 2.15E-02 4.73E-02 1.65E-01 1.32E-02	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01 TOTAL RME Intake 7.75E-04 1.80E-03 9.52E-02 1.21E-01 1.17E-01 3.03E-01 3.57E-02	
Nickel Pyrene LPAH HPAH TOTAL PAHS  TOTAL INTAKE INTAKE = Sediment Intake + Food Intak  Chemical 4,4'-DDD Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(g,hi)noranthene Cadmium Chrysene Nickel Pyrene LPAH	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01 1.70E-01  TOTAL Average Intake 7.98E-03 4.77E-03 4.28E-02 2.15E-02 4.73E-02 1.65E-01 1.32E-02 6.02E+00 8.57E-03	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01 TOTAL RME Intake 7.75E-04 1.80E-03 9.52E-02 1.21E-01 1.17E-01 3.03E-01 3.57E-02 7.60E+00 1.54E-02	
Nickel Pyrene LPAH HPAH TOTAL PAHS  TOTAL INTAKE INTAKE = Sediment Intake + Food Intak  Chemical 4,4'-DDT Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Cadmium Chrysene Nickel Pyrene LPAH HPAH	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01 1.70E-01  TOTAL Average Intake  7.98E-03 4.77E-03 4.28E-02 2.15E-02 4.73E-02 1.65E-01 1.32E-02 6.02E+00 8.57E-03 1.84E-01	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01 TOTAL RME Intake 7.75E-04 1.80E-03 9.52E-02 1.21E-01 1.17E-01 3.03E-01 3.57E-02 7.60E+00 1.54E-02 5.25E-01	
Nickel Pyrene LPAH HPAH TOTAL PAHS  TOTAL INTAKE INTAKE = Sediment Intake + Food Intak  Chemical 4,4'-DDD Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(g,hi)noranthene Cadmium Chrysene Nickel Pyrene LPAH	0.00E+00 0.00E+00 4.86E-01 4.86E-01	0.00E+00 0.00E+00 1.38E+00	1.47E+01 2.37E-02 2.39E-01	8.82E-02 1.85E+01 4.27E-02 6.81E-01	1.51E-01 1.23E-02 4.43E+00 7.13E-03 1.70E-01 1.70E-01 1.70E-01  TOTAL Average Intake 7.98E-03 4.77E-03 4.28E-02 2.15E-02 4.73E-02 1.65E-01 1.32E-02 6.02E+00 8.57E-03	3.32E-02 5.59E+00 1.29E-02 4.83E-01 4.83E-01 TOTAL RME Intake 7.75E-04 1.80E-03 9.52E-02 1.21E-01 1.17E-01 3.03E-01 3.57E-02 7.60E+00 1.54E-02	

### TABLE I-8 INTAKE CALCULATIONS FOR POND SEDIMENT GREEN HERON

FOOD INGESTION							
INTAKE = ((Cf * IR * Dff	* AUF)/(BW) + (Cc * IR * D	Fc * AUF) /	(BW))				
Parameter	Definition				Value	Reference	
Intake	Intake of chemical (mg/kg	g-day)			calculated		
Cf	Fish concentration (mg/kg				see FoodConc page		
Cc	Crab concentration (mg/k	.g)			see FoodConc page		
IR	Ingestion rate of of food (	kg/day)			1.13E-01	EPA, 1993	
DFf	Dietary fraction of fish (ur	nitless)			7.50E-01	Kent, 1986	
DFc	Dietary fraction of crab (u	nitless)			2.50E-01	Kent, 1986	
AUF	Area Use Factor				1	EPA, 1997	
BW	Body weight (kg)				3.75E-01	Dunning, 1993	
	Averege	RME	Average	RME	Avoraga	RME	
Chemical	Average Fish	Fish	Average Crab	Crab	Average Intake	Intake	
Criemical	1 1311	1 1311	Clab	Clab	intake	IIIIake	
4,4'-DDD	4.03E-03	3.92E-04	2.80E-02	2.72E-03	3.00E-03	2.92E-04	
4,4'-DDT	2.41E-03	9.11E-04	1.67E-02	6.31E-03	1.80E-03	6.78E-04	
Benzo(b)fluoranthene	3.15E-02	7.00E-02	7.48E-02	1.66E-01	1.27E-02	2.82E-02	
Benzo(g,h,i)perylene	1.58E-02	8.91E-02	3.76E-02	2.12E-01	6.38E-03	3.59E-02	
Benzo(k)fluoranthene	3.48E-02	8.58E-02	8.27E-02	2.04E-01	1.40E-02	3.46E-02	
Cadmium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Chrysene	6.27E-03	1.70E-02	1.23E-02	3.32E-02	2.33E-03	6.30E-03	
Nickel	8.82E-01	1.11E+00	0.00E+00	0.00E+00	1.98E-01	2.50E-01	
Pyrene	9.70E-03	1.75E-02	0.00E+00	0.00E+00	2.18E-03	3.94E-03	
LPAH							
HPAH	9.80E-02	2.79E-01	4.86E-01	1.38E+00	5.85E-02	1.67E-01	
TOTAL PAHs	9.80E-02	2.79E-01	4.86E-01	1.38E+00	5.85E-02	1.67E-01	

## TABLE I-9 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR POND SEDIMENT FIDDLER CRAB

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Intake TRV Default see Intake

Chemical	Average Intake	RME Intake	TRV Fiddler Crab	Average EHQ	RME EHQ
Gileimear	muno	intake	r ladici Grab	LIIG	Liig
4,4'-DDD	1.61E-05	1.56E-06	1.47E-01	1.09E-04	1.06E-05
4,4'-DDT	9.62E-06	3.63E-06	1.47E-01	6.54E-05	2.47E-05
Benzo(b)fluoranthene	1.60E-04	3.55E-04			
Benzo(g,h,i)perylene	8.04E-05	4.53E-04			
Benzo(k)fluoranthene	1.77E-04	4.36E-04			
Cadmium	8.32E-04	1.53E-03	7.70E-01	1.08E-03	1.98E-03
Chrysene	5.41E-05	1.46E-04			
Nickel	3.98E-02	5.03E-02	1.70E+00	2.34E-02	2.96E-02
Pyrene	4.93E-05	8.88E-05			
LPAH					
HPAH	4.98E-04	1.42E-03	9.31E+00	5.35E-05	1.52E-04
TOTAL PAHs	4.98E-04	1.42E-03			

## TABLE I-10 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR POND SEDIMENT SANDPIPER

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Intake TRV Default

see Intake

Chemical	Average Intake	RME Intake	TRV Sandpiper	Average EHQ	RME EHQ
4,4'-DDD	7.98E-03	7.75E-04	2.27E-01	3.51E-02	3.41E-03
4,4'-DDT	4.77E-03	1.80E-03	2.27E-01	2.10E-02	7.93E-03
Benzo(b)fluoranthene	4.28E-02	9.52E-02			
Benzo(g,h,i)perylene	2.15E-02	1.21E-01			
Benzo(k)fluoranthene	4.73E-02	1.17E-01			
Cadmium	1.65E-01	3.03E-01	1.47E+00	1.12E-01	2.06E-01
Chrysene	1.32E-02	3.57E-02			
Nickel	6.02E+00	7.60E+00	6.71E+00	8.98E-01	1.13E+00
Pyrene	8.57E-03	1.54E-02			
LPAH					
HPAH	1.84E-01	5.25E-01	9.31E+00	1.98E-02	5.64E-02
TOTAL PAHs	1.84E-01	5.25E-01			

## TABLE I-11 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR POND SEDIMENT GREEN HERON

Ecological Hazard Quotient = Intake/TRV

Definition
Intake of COPC (mg/kg-day)
Toxicity Reference Value (mg/kg) Parameter Intake TRV Default see Intake

Chemical	Average Intake	RME Intake	TRV Green Heron	Average EHQ	RME EHQ
					· · · · · · · · · · · · · · · · · · ·
4,4'-DDD	3.00E-03	2.92E-04	2.27E-01	1.32E-02	1.29E-03
4,4'-DDT	1.80E-03	6.78E-04	2.27E-01	7.92E-03	2.99E-03
Benzo(b)fluoranthene	1.27E-02	2.82E-02			
Benzo(g,h,i)perylene	6.38E-03	3.59E-02			
Benzo(k)fluoranthene	1.40E-02	3.46E-02			
Cadmium	0.00E+00	0.00E+00	1.47E+00	0.00E+00	0.00E+00
Chrysene	2.33E-03	6.30E-03			
Nickel	1.98E-01	2.50E-01	6.71E+00	2.96E-02	3.73E-02
Pyrene	2.18E-03	3.94E-03			
LPAH					
НРАН	5.85E-02	1.67E-01	9.31E+00	6.28E-03	1.79E-02
TOTAL PAHs	5.85E-02	1.67E-01			

**TABLE 1-12** AVERAGE CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg)

## Cfood = Csed x BSAF (or BSAF or BCF with food chain multiplier)

where:

Cfood = Chemical Concentration in food (mg/kg dry) Csed = BSAF BCF = Chemical Concentration in soil (mg/kg dry)
Biota to Sediment Accumulation Factor (unitless)

Bioconcentration Factor (unitless)

Compound	Average Csed	Sediment to Worm	Worm R	eference	Sediment to Crab	Crab	Reference	Sediment to Fish	Fish	Reference
	(mg/kg)	BSAF	Concentration		BSAF	Concentration		BSAF	Concentration	
4,4'-DDD	6.96E-03	8.00E-01	5.56E-03 BS	SAF DB	4.02E+00	2.80E-02	2 BSAF DB	5.80E-01	4.03E-03 \	NSDOH, 1995
4,4'-DDT	4.16E-03	8.00E-01	3.33E-03 BS	SAF DB	4.02E+00	1.67E-02	2 BSAF DB	5.80E-01	2.41E-03 \	NSDOH, 1995
Benzo(b)fluoranthene	4.77E-02	1.61E+00	7.67E-02 EF	PA, 1999	1.57E+00	7.48E-02	2 BSAF DB	6.60E-01	3.15E-02 \	NSDOH, 1995
Benzo(g,h,i)perylene	2.40E-02	1.61E+00	3.86E-02 EF	PA, 1999	1.57E+00	3.76E-02	2 BSAF DB	6.60E-01	1.58E-02 \	WSDOH, 1995
Benzo(k)fluoranthene	5.27E-02	1.61E+00	8.48E-02 EF	PA, 1999	1.57E+00	8.27E-02	2 BSAF DB	6.60E-01	3.48E-02 \	WSDOH, 1995
Cadmium	1.47E-01	3.40E+00	5.00E-01 EF	PA, 1999		0.00E+00	)		0.00E+00	
Chrysene	9.50E-03	3.43E+00	3.26E-02 BS	SAF DB	1.29E+00	1.23E-02	2 BSAF DB	6.60E-01	6.27E-03 \	WSDOH, 1995
Nickel	1.63E+01	9.00E-01	1.47E+01 EF	PA, 1999		0.00E+00	)	5.40E-02	8.82E-01 N	Max value from Calcasieu RI
Pyrene	1.47E-02	1.61E+00	2.37E-02 EF	A, 1999		0.00E+00	)	6.60E-01	9.70E-03 \	WSDOH, 1995
LPAH		1.61E+00	0.00E+00 EF	PA, 1999						
НРАН	1.49E-01	1.61E+00	2.39E-01 EF	PA, 1999	3.27E+00	4.86E-01	I max PAH	6.60E-01	9.80E-02 \	WSDOH, 1995
TOTAL PAHs	1.49E-01	1.61E+00	2.39E-01 EF	PA, 1999	3.27E+00	4.86E-01	1 max PAH	6.60E-01	9.80E-02 \	WSDOH, 1995

### Notes:

<sup>\*</sup> For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

### TABLE I-13 RME CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg)

## Cfood = Csed x BSAF (or BSAF or BCF with food chain multiplier)

where:

Cfood = Chemical Concentration in food (mg/kg dry) Csed = BSAF BCF = Chemical Concentration in soil (mg/kg dry)
Biota to Sediment Accumulation Factor (unitless)

Bioconcentration Factor (unitless)

Compound	RME Csed	Sediment to Worm	Worm	Reference	Sediment to Crab	Crab	Reference	Sediment to Fish	Fish	Reference
	(mg/kg)	BSAF	Concentration		BSAF	Concentration		BSAF	Concentration	
4,4'-DDD	6.76E-04	8.00E-01	5.41E-04	BSAF DB	4.02E+00	2.72E-03	BSAF DB	5.80E-01	3.92E-04 WS	SDOH, 1995
4,4'-DDT	1.57E-03	8.00E-01	1.26E-03	BSAF DB	4.02E+00	6.31E-03	BSAF DB	5.80E-01	9.11E-04 WS	SDOH, 1995
Benzo(b)fluoranthene	1.06E-01	1.61E+00	1.71E-01	EPA, 1999	1.57E+00	1.66E-01	BSAF DB	6.60E-01	7.00E-02 WS	SDOH, 1995
Benzo(g,h,i)perylene	1.35E-01	1.61E+00	2.17E-01	EPA, 1999	1.57E+00	2.12E-01	BSAF DB	6.60E-01	8.91E-02 WS	SDOH, 1995
Benzo(k)fluoranthene	1.30E-01	1.61E+00	2.09E-01	EPA, 1999	1.57E+00	2.04E-01	BSAF DB	6.60E-01	8.58E-02 WS	SDOH, 1995
Cadmium	2.70E-01	3.40E+00	9.18E-01	EPA, 1999		0.00E+00	)		0.00E+00	
Chrysene	2.57E-02	3.43E+00	8.82E-02	BSAF DB	1.29E+00	3.32E-02	BSAF DB	6.60E-01	1.70E-02 WS	SDOH, 1995
Nickel	2.06E+01	9.00E-01	1.85E+01	EPA, 1999		0.00E+00	)	5.40E-02	1.11E+00 Ma	x value from Calcasieu RI
Pyrene	2.65E-02	1.61E+00	4.27E-02	EPA, 1999		0.00E+00	)	6.60E-01	1.75E-02 WS	SDOH, 1995
LPAH		1.61E+00	0.00E+00	EPA, 1999						·
HPAH	4.23E-01	1.61E+00	6.81E-01	EPA, 1999	3.27E+00	1.38E+00	) max PAH	6.60E-01	2.79E-01 WS	SDOH, 1995
TOTAL PAHs	4.23E-01	1.61E+00	6.81E-01	EPA, 1999	3.27E+00	1.38E+00	) max PAH	6.60E-01	2.79E-01 WS	SDOH, 1995

### Notes:

<sup>\*</sup> For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

## TABLE J-1-1 EXPOSURE POINT CONCENTATION (mg/kg) SOIL SOUTH OF MARLIN AVE.

Parameter	Average	95% UCL	Statistic Used
4,4-DDD	0.00766	0.0498	97.5% Chebyshev
Aroclor-1254	0.205	0.74	97.5% Chebyshev
Copper	24.26	46.92	97.5% Chebyshev
Lead	53.52	104	97.5% Chebyshev
Zinc	433.8	815.2	97.5% Chebyshev

# TABLE J-1-2 EXPOSURE POINT CONCENTATION (mg/kg) SURFACE SOIL SOUTH OF MARLIN AVE.

Parameter	Average	95% UCL	Statistic Used
4,4-DDD	7.89E-04	0.0029	97.5% Chebyshev
Aroclor-1254	0.137	0.726	97.5% Chebyshev
Copper	27.98	32.45	95% H-UCL
Lead	69.61	84.5	95% H-UCL
Zinc	601.2	727.7	95% Approx. Gamma

### Notes:

NS - Not sampled in surface soil.

#### TABLE J-1-3 TOXICITY REFERENCE VALUES -- SEVERAL WITH LOAELS SURFACE SOIL SOUTH OF MARLIN AVE.

Parameter	Earthworm (mg/kg)	Ref.	Comments	Deer Mouse (mg/kgBW-day)	Ref.	Comments	Coyote (mg/kgBW-day)	Ref.	Comments	Rat Snake (mg/kgBW-day)	Ref.	Comments	American Robin (mg/kgBW-day)	Ref.	Comments	Red-tailed Hawk (mg/kgBW-day)	Ref.	Comments
4,4-DDD	0.43	EPA, 2007a	Acute median LC50 in common cricket (dose 4.3 with uncertainty factor of	0.147	EPA. 2007a	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival	0.147	EPA, 2007a	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival	0.227		Avian TRV was used as a surrogate for the rat snake since no TRV was found specific for reptiles.	0.227	EPA, 2007a	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival	0.227	EPA. 2007a	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction, growth, and survival
Aroclor-1254	2.51	EPA, 20078	Acute median LC50 in earthworms (dose 251 with uncertainty		Sample, 1996	Chronic LOAEL for reproduction in mouse			Chronic LOAEL for reproduction in mouse	0.68	Sample, 1996			Sample, 1996	growth, and survival	0.68	Sample, 1996	
P100101-1234		,	Geometric mean of the MATC and EC10 values for six test species under		, , , , , ,	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction,		•	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction,		Sample, 1990				Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction,		, , , , ,	Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction,
Copper	80	EPA, 2007	Geometric mean of MATC values for one test species	5.6	EPA, 2007c	growth, and survival	5.6	EPA, 2007c	growth, and survival	4.05		Avian TRV	4.05	EPA, 2007c	growth, and survival	4.05	EPA, 2007c	growth, and survival
Lead	1700	EPA, 20056	Geometric mean of the MATC for reproduction for two		Sample, 1996	LOAEL	80	Sample, 1996	LOAEL	80	Sample, 1996	LOAEL	80	Sample, 1996	LOAEL	80	Sample, 1996	LOAEL

#### Notes:

EPA, 2007c -- Copper EPA, 2007e -- Zinc EPA, 2005e -- Lead

# TABLE J-1-4 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL SOUTH OF MARLIN EARTHWORM

Ecological Hazard	d Quotient = Sc/TRV				
Parameter	Definition			Defa	ult
Sc	Soil Concentration (mg/kg)			see b	pelow
TRV	Toxicity Reference Value (m	ng/kg)		see T	ΓRV summary page
Chemical	Average Sc	RME Sc	TRV (earthworm)	Average EHQ	RME EHQ
4.4.DDD	7 66E 02	4.09E.02	,	1.78E-02	1 165 01
4,4-DDD	7.66E-03	4.98E-02	4.30E-01		1.16E-01
Aroclor-1254	2.05E-01	7.40E-01	2.51E+00	8.17E-02	2.95E-01
Copper	2.43E+01	4.69E+01	8.00E+01	3.03E-01	5.87E-01
Lead	5.35E+01	1.04E+02	1.70E+03	3.15E-02	6.12E-02
Zinc	4.34E+02	8.15E+02	5.38E+02	8.06E-01	1.52E+00

# TABLE J-1-5 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN DEER MOUSE

OOU INCESTION						
SOIL INGESTION						
INTAKE = (Sc * IR *	AF * AUF) / (BW)					
Parameter	Definition				Value	Reference
Intake	Intake of chemical (m	g/kg-day)			calculated	
Sc	Soil concentration (mg				see data page	
IR	Ingestion rate of soil (				2.13E-05	EPA, 1999 (normalized for bw)
AF	Chemical Bioavailabil		itless)		1	EPA, 1997
AUF	Area Use Factor	ity iii son (uii	111000)		1	EPA, 1997
BW	Body weight (kg)				1.48E-02	EPA, 1999
		Average		RME	Average	RME
Chemical		Sc		Sc	Intake	Intake
4.4.000		7.005.00		4.005.00	4.405.05	7.475.05
4,4-DDD		7.66E-03		4.98E-02	1.10E-05	7.17E-05
Aroclor-1254		2.05E-01		7.40E-01	2.95E-04	1.07E-03
Copper		2.43E+01		4.69E+01	3.49E-02	6.75E-02
Lead		5.35E+01		1.04E+02	7.70E-02	1.50E-01
Zinc		4.34E+02		8.15E+02	6.24E-01	1.17E+00
FOOD INGESTION						
INTAKE - ((Ca * IR	* DFa * AUF) / (BW) + (	/(Cn * IR * DI	Fs *ΔI IF)//R\//	))		
11171112 = ((Od 1111	Dia Noi // (BW) i	(OP III DI	3 7101 J/(DW	//		
Parameter	Definition				Value	Reference
Intake	Intake of chemical (m	g/kg-day)			calculated	
Ca	Arthropod concentrati	on (mg/kg)			see FoodConc page	ı.
Ср	Plant concentration (n	ng/kg)			see FoodConc page	ı
IR	Ingestion rate of of fo	0 0,			8.87E-03	EPA, 1999 (normalized for bw)
Dfa	Dietary fraction of arth		less)		5.60E-01	EPA, 1993
Dfs	Dietary fraction of pla		,	ation (unitless)	4.40E-01	EPA, 1993
AUF	Area Use Factor	no, coodo di	ia otiloi vogot	ation (anitiooo)	1	EPA, 1997
BW	Body weight (kg)				1.48E-02	EPA, 1999
DVV	Body weight (kg)				1.40L-02	LFA, 1999
	Average	RME	Average	RME	Average	RME
Chemical		Arthropod	Plant	Plant	Intake	Intake
4,4-DDD	9.65E-03	6.27E-02	7.18E-05	4.67E-04	3.26E-03	2.12E-02
Aroclor-1254	2.32E-01	8.36E-01	2.05E-03	7.40E-03	7.83E-02	2.83E-01
Copper	9.70E-01	1.88E+00	9.70E+00	1.88E+01	2.88E+00	5.58E+00
Lead	1.61E+00	3.12E+00	2.41E+00	4.68E+00	1.17E+00	2.28E+00
Zinc	2.43E+02	4.57E+02	5.21E-10	9.78E-10	8.15E+01	1.53E+02
TOTAL INTAKE						
INTAKE = Soil Intak	e + Food Intake					
INTAKE = SOII III lak	e + 1 ood iiitake					
					TOTAL	TOTAL
Chemical					Average Intake	RME Intake
4.4.DDD					2 27E 02	2 125 02
4,4-DDD					3.27E-03	2.13E-02
Aroclor-1254					7.86E-02	2.84E-01
Copper					2.92E+00	5.65E+00
Lead					1.25E+00	2.43E+00
Zinc					8.22E+01	1.54E+02

# TABLE J-1-6 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN COYOTE

FOOD INGESTION						
INTAKE = ((Cm * IR	R * Dfm * AUF)/(BW) + (Cb * IR *	DFb * AUF	) / (BW))			
Parameter	Definition				Value	Reference
Intake	Intake of chemical (mg/kg	y-day)			calculated	
Cm	Mammal concentration (m	ng/kg)			see FoodConc pag	ge
Cb	Bird concentration (mg/kg	<b>J</b> )			see FoodConc pag	ge
IR	Ingestion rate of of food (I	kg/day)			1.55E+00	EPA, 1993 (normalized for bw)
Dfm	Dietary fraction of small m	nammals (ur	nitless)		7.50E-01	EPA, 1993
Dfb	Dietary fraction of birds (u	ınitless)			2.50E-01	EPA, 1993
AUF	Area Use Factor				1	EPA, 1997
BW	Body weight (kg)				1.55E+01	EPA, 1993
	Average	RME	Average	RME	Average	RME
Chemical	Mammal	Mammal	Bird	Bird	Intake	Intake
4,4-DDD	2.09E-04	1.36E-03	1.26E-04	8.17E-04	1.88E-05	1.22E-04
Aroclor-1254	4.99E-03	1.80E-02	3.00E-03	1.08E-02	4.50E-04	1.62E-03
Copper	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead	9.66E-03	1.88E-02	0.00E+00	0.00E+00	7.24E-04	1.41E-03
Zinc	2.34E-02	4.40E-02	1.74E+00	3.27E+00	4.53E-02	8.51E-02

# TABLE J-1-7 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN RAT SNAKE

SOIL INGESTION									
INTAKE = (Sc * IR * AF	F * AUF) / (BW)								
Parameter		Definition					Value	Reference	
Intake		ntake of cher	nical (mg/k	n-day)			calculated	110.0.0.00	
Sc		Soil concentra					see data page		
IR		ngestion rate				1.45E-04	EPA, 1993 *		
AF		Chemical Bio				1.45E-04	EPA, 1997		
AUF				iii soii (uriitie		1			
BW		Area Use Fac					EPA, 1997		
BVV		Body weight (	kg)				1.39E-01	EPA, 1993	
				Average		RME	Average	RME	
Chemical				Sc		Sc	Intake	Intake	
4,4-DDD				7.66E-03		4.98E-02	7.97E-06	5.18E-05	
Aroclor-1254				2.05E-01		7.40E-01	2.13E-04	7.70E-04	
Copper				2.43E+01		4.69E+01	2.52E-02	4.88E-02	
Lead				5.35E+01		1.04E+02	5.57E-02	1.08E-01	
Zinc				4.34E+02		8.15E+02	4.51E-01	8.48E-01	
FOOD INGESTION									
INTAKE = ((Cb * IR * D	Ofb * AUF)/(BW) + (	Ca * IR * DF	a * AUF) / (	BW) + ((Cm	* IR * DFm *	AUF)/(BW))			
Parameter		Definition					Value	Reference	
Intake		ntake of cher	nical (mg/k	n-day)			calculated		
Cb		Bird concentra					see FoodConc page		
Ca		Arthropod cor					see FoodConc page		
Cm		Nammal cond					see FoodConc page		
IR		ngestion rate						EPA, 1993 (normalized	for hw)
Dfb		Dietary fraction					1.80E-01	EPA, 1993	i ioi bw)
Dfa					(م		2.00E-01	EPA, 1993	
		Dietary fraction						,	
Dfm		Dietary fraction		mammais (u	nitiess)		6.20E-01	EPA, 1993	
AUF		Area Use Fac					1	EPA, 1997	
BW	ь	Body weight (	kg)				1.39E-01	EPA, 1993	
	Average	RME	Average	RME	Average	RME	Average	RME	
Chemical	Bird	Bird	Arthropod		Mammal	Mammal	Intake	Intake	
4,4-DDD	1.26E-04	8.17E-04	9.65E-03	6.27E-02	2.09E-04	1.36E-03	4.16E-05	2.71E-04	
Aroclor-1254	3.00E-03	1.08E-02	2.32E-01	8.36E-01	4.99E-03	1.80E-02	9.99E-04	3.61E-03	
Copper	0.00E+00	0.00E+00		1.88E+00	0.00E+00	0.00E+00	3.88E-03	7.51E-03	
Lead	0.00E+00	0.00E+00		3.12E+00	9.66E-03	1.88E-02	6.54E-03	1.27E-02	
Zinc	1.74E+00			4.57E+02	2.34E-02	4.40E-02	9.78E-01	1.84E+00	
TOTAL INTAKE									
INTAKE = Soil Intake +	Food Intake								
							TOTAL	TOTAL	
							TOTAL		
Chemical							Average Intake	RME Intake	
4,4-DDD							4.96E-05	3.23E-04	
Aroclor-1254							1.21E-03	4.38E-03	
Copper							2.91E-02	5.63E-02	
Lead							6.22E-02	1.21E-01	
Zinc							1.43E+00	2.69E+00	
T .									

Notes:

\* Soil ingestion was assumed to be 5.2% of dietary intake per other reptiles listed in EPA, 1993.

#### TABLE J-1-8 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN AMERICAN ROBIN

SOIL INGESTION							
INTAKE = (Sc * IR * AI	F * AUF) / (BW)						
Parameter	D.	efinition				Value	Reference
Intake	In	ntake of chemical (m	g/kg-day)			calculated	
Sc		oil concentration (mg				see data page	
R		ngestion rate of soil (				1.14E-03	EPA, 1999 (normalized for bw)
AF		hemical Bioavailabil		(220)		1.142 00	EPA, 1997
AUF		rea Use Factor	ity iii son (uniti	633)		1	EPA, 1997
BW							
BVV	В	ody weight (kg)				8.00E-02	EPA, 1999
			Average		RME	Average	RME
Chemical			Sc		Sc	Intake	Intake
4,4-DDD			7.89E-04		2.90E-03	1.12E-05	4.13E-05
Aroclor-1254			1.37E-01		7.26E-01	1.95E-03	1.03E-02
Copper			2.80E+01		3.25E+01	3.99E-01	4.62E-01
_ead			6.96E+01		8.45E+01	9.92E-01	1.20E+00
Zinc			6.01E+02		7.28E+02	8.57E+00	1.04E+01
			0.012102		7.202102	0.07 £ 100	1.042101
FOOD INGESTION INTAKE = ((Ce * IR * E	Ofe * AUF)/(BW) + (0	Ca * IR * DFa * AUF	) / (BW) + ((Cp	* IR * DFs *Al	UF)/(BW))		
Parameter	D.	efinition				Value	Reference
ntake		ntake of chemical (m	g/kg-day)			calculated	
Ce		arthworm concentrate				see FoodConc page	
Ca		rthropod concentrati				see FoodConc page	
Ср		lant concentration (n				see FoodConc page	
Ср IR						3.52E-02	EPA, 1999 (normalized for bw
ik Dfe		ngestion rate of of for		)			
		ietary fraction of ear				4.60E-01	EPA, 1993
Dfa		ietary fraction of arth		,		4.60E-01	EPA, 1993
Dfs		ietary fraction of pla	nts, seeds and	other vegetati	on (unitless)	8.00E-02	EPA, 1993
AUF	ıΑ	rea Use Factor				1	EPA, 1997
BW	Во	ody weight (kg)				8.00E-02	EPA, 1999
	Average	RME Averag	je RME	Average	RME	Average	RME
Chemical	Earthworm E	Earthworm Arthrope	od Arthropod	Plant	Plant	Intake	Intake
4,4-DDD	9.65E-03	6.27E-02 9.65E-	03 6.27E-02	7.18E-05	4.67E-04	3.91E-03	2.54E-02
Aroclor-1254	2.32E-01	8.36E-01 2.32E-	01 8.36E-01	2.05E-03	7.40E-03	9.38E-02	3.39E-01
Copper	9.70E-01	1.88E+00 9.70E-			1.88E+01	7.34E-01	1.42E+00
Lead	1.61E+00	3.12E+00 1.61E+			4.68E+00	7.35E-01	1.43E+00
Zinc	2.43E+02	4.57E+02 2.43E+			9.78E-10	9.83E+01	1.85E+02
TOTAL INTAKE							
INTAKE = Soil Intake -	+ Food Intake						
						TOTAL	TOTAL
						Average	RME
Chemical						Intake	Intake
4,4-DDD						3.92E-03	2.55E-02
Aroclor-1254						9.58E-02	3.49E-01
Copper						1.13E+00	1.88E+00
Lead						1.73E+00	2.63E+00
Zinc						1.73E+00 1.07E+02	1.95E+02
LIIIC						1.07 ⊑+02	1.300702

# TABLE J-1-9 INTAKE CALCULATIONS FOR SOIL SOUTH OF MARLIN RED-TAILED HAWK

Parameter	Definition				Value	Reference
Intake	Intake of chemical (mg/k	0 ,,			calculated	
Cm	Mammal concentration (	0 0,			see FoodConc pa	•
Cb	Bird concentration (mg/k				see FoodConc pa	•
IR	Ingestion rate of of food			1.78E-01	EPA, 1999 (normalized for bw	
Dfm	Dietary fraction of small	•	nitless)		7.85E-01	EPA, 1993
Dfb	Dietary fraction of birds (	(unitless)			2.15E-01	EPA, 1993
AUF	Area Use Factor				1	EPA, 1997
BW	Body weight (kg)				9.60E-01	EPA, 1999
	Average	RME	Average	RME	Average	RME
Chemical	Mammal	Mammal	Bird	Bird	Intake	Intake
4,4-DDD	2.09E-04	1.36E-03	1.26E-04	8.17E-04	3.53E-05	2.30E-04
Ároclor-1254	4.99E-03	1.80E-02	3.00E-03	1.08E-02	8.45E-04	3.05E-03
Copper	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead	9.66E-03	1.88E-02	0.00E+00	0.00E+00	1.40E-03	2.73E-03
Zinc	2.34E-02	4.40E-02	1.74E+00	3.27E+00	7.27E-02	1.37E-01

## TABLE J-1-10 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL SOUTH OF MARLIN **DEER MOUSE**

Ecological Hazard	d Quotient = Intake/TRV									
Parameter	Definition			Defa	ult					
Intake	Intake of COPC (mg/kg-day	)		see I	ntake					
TRV Toxicity Reference Value (mg/kg) see TRV summary page										
	Average	RME	TRV	Average	RME					
Chemical	Intake	Intake	(deer mouse)	EHQ	EHQ					
4,4-DDD	3.27E-03	2.13E-02	1.47E-01	2.22E-02	1.45E-01					
Aroclor-1254	7.86E-02	2.84E-01	6.80E-01	1.16E-01	4.17E-01					
Copper	2.92E+00	5.65E+00	5.60E+00	5.21E-01	1.01E+00					
l ead	1 25F±00	2 43E±00	8 00E±01	1 56E-02	3 04E-02					

8.00E+01

3.20E+02

1.56E-02

2.57E-01

3.04E-02

4.82E-01

2.43E+00

1.54E+02

1.25E+00

8.22E+01

Lead

Zinc

### TABLE J-1-11 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL SOUTH OF MARLIN COYOTE

Ecological Hazard	d Quotient = Intake/TRV				
Parameter	Definition			Defa	ult
Intake	Intake of COPC (mg/kg-day	·)		see I	ntake
TRV	Toxicity Reference Value (n	ng/kg)		see T	RV summary page
Chemical	Average Intake	RME Intake	TRV Coyote	Average EHQ	RME EHQ
4,4-DDD	1.88E-05	1.22E-04	1.47E-01	1.28E-04	8.32E-04
Aroclor-1254	4.50E-04	1.62E-03	6.80E-01	6.61E-04	2.39E-03
Copper	0.00E+00	0.00E+00	5.60E+00	0.00E+00	0.00E+00
Lead	7.24E-04	1.41E-03	8.00E+01	9.05E-06	1.76E-05
Zinc	4.53E-02	8.51E-02	3.20E+02	1.42E-04	2.66E-04

#### **TABLE J-1-12** ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL SOUTH OF MARLIN **RAT SNAKE**

Ecological Hazard	d Quotient = Intake/TRV									
Parameter	Definition			Defa	ult					
Intake	Intake of COPC (mg/kg-day	)		see I	ntake					
TRV Toxicity Reference Value (mg/kg) see TRV summary page										
	Average	RME	TRV	Average	RME					
Chemical	Intake	Intake	Rat Snake	EHQ	EHQ					
4,4-DDD	4.96E-05	3.23E-04	2.27E-01	2.19E-04	1.42E-03					
Aroclor-1254	#REF!	#REF!	6.80E-01	#REF!	#REF!					
Copper	2.91E-02	5.63E-02	4.05E+00	7.19E-03	1.39E-02					
Load	6.335.03	1 21E 01	9 00E : 01	7 705 04	1 F1E 02					

8.00E+01

3.20E+02

7.78E-04

4.47E-03

1.51E-03

8.39E-03

1.21E-01

2.69E+00

6.22E-02

1.43E+00

Lead

Zinc

### TABLE J-1-13 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL SOUTH OF MARLIN AMERICAN ROBIN

rd Quotient = Intake/TRV	
Definition	Default
Intake of COPC (mg/kg-day)	see Intake
Toxicity Reference Value (mg/kg)	see TRV summary page
	Definition Intake of COPC (mg/kg-day)

	Average	RME	TRV	Average	RME
Chemical	Intake	Intake	American Robin	EHQ	EHQ
4,4-DDD	3.92E-03	2.55E-02	2.27E-01	1.73E-02	1.12E-01
Aroclor-1254	9.58E-02	3.49E-01	6.80E-01	1.41E-01	5.13E-01
Copper	1.13E+00	1.88E+00	4.05E+00	2.80E-01	4.65E-01
Lead	1.73E+00	2.63E+00	8.00E+01	2.16E-02	3.29E-02
Zinc	1.07E+02	1.95E+02	3.20E+02	3.34E-01	6.10E-01

# TABLE J-1-14 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL SOUTH OF MARLIN RED-TAILED HAWK

Ecological Hazard	d Quotient = Intake/TRV				
Parameter	Definition			Defa	ult
Intake	Intake of COPC (mg/kg-day	·)		see I	ntake
TRV	Toxicity Reference Value (n	ng/kg)		see	ΓRV summary page
Chemical	Average Intake	RME Intake	TRV Red-Tailed Hawk	Average EHQ	RME EHQ
4,4-DDD	3.53E-05	2.30E-04	2.27E-01	1.56E-04	1.01E-03
Aroclor-1254	8.45E-04	3.05E-03	6.80E-01	1.24E-03	4.48E-03
Copper	0.00E+00	0.00E+00	4.05E+00	0.00E+00	0.00E+00
Lead	1.40E-03	2.73E-03	8.00E+01	1.75E-05	3.41E-05

3.20E+02

2.27E-04

4.27E-04

1.37E-01

Zinc

7.27E-02

# TABLE J-1-15 AVERAGE CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg) SURFACE SOIL SOUTH OF MARLIN AVE.

Cfood = Csoil x BCF (or BAF)

Cfood = Csoil = BCF BAF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Bioconcentration Factor (unitless) Bioaccumulation Factor (unitless)

Compound	Average Csoil	Soil to Earthworm	Earthworm I	Reference Soil to Arthro	ood Arthropod	Reference	Soil to Plant	Plant/Fruit/Seed Referen	ce Plant to Wildlife	Plant to Deer Mouse Reference	Soil to Wildlife	Soil to Deer Mouse Referen	ice TOTAL DEER MOUSE	Plant to Bird	I Plant to Bird Reference	Soil to Bird	Soil to Bird Reference	e TOTAL BIRD
·	(mg/kg)	BCF	Concentration	BCF	Concentration	on	BAF	Concentration	BCF	Concentration	BCF	Concentration	CONCENTRATION	BCF	Concentration	BCF	Concentration	CONCENTRATION
4,4-DDD	7.66E-03	1.26E+00	9.65E-03 E	PA, 1999 1.26	E+00 9.65E	-03 EPA, 1999	9.37E-03	7.18E-05 EPA, 199	9 2.72E-02	2.08E-04 EPA, 1999	6.52E-05	4.99E-07 EPA, 1999	2.09E-04	1.59E-02	1.22E-04 EPA, 1999	5.10E-0	4 3.91E-06 EPA, 1999	1.26E-04
Aroclor-1254	2.05E-01	1.13E+00	2.32E-01 E	PA, 1999 1.13	E+00 2.32E	-01 EPA, 1999	1.00E-02	2.05E-03 EPA, 199	9 2.43E-02	4.98E-03 EPA, 1999	5.83E-05	1.20E-05 EPA, 1999	4.99E-03	1.42E-02	2.91E-03 EPA, 1999	4.55E-0	4 9.33E-05 EPA, 1999	3.00E-03
Copper	2.43E+01	4.00E-02	9.70E-01 E	PA, 1999 4.0	E-02 9.70E	-01 EPA, 1999	4.00E-01	9.70E+00 EPA, 199	9	0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Lead	5.35E+01	3.00E-02	1.61E+00 E	PA, 1999 3.0	DE-02 1.61E-	-00 EPA, 1999	4.50E-02	2.41E+00 EPA, 199	9 1.80E-04	9.63E-03 EPA, 1999	4.32E-07	2.31E-05 EPA, 1999	9.66E-03		0.00E+00		0.00E+00	0.00E+00
Zinc	4.34E+02	5.60E-01	2.43E+02 E	PA, 1999 5.6	E-01 2.43E-	-02 EPA, 1999	1.20E-12	5.21E-10 EPA, 199	9 5.39E-05	2.34E-02 EPA, 1999	1.29E-07	5.60E-05 EPA, 1999	2.34E-02	3.89E-03	1.69E+00 EPA, 1999	1.25E-0	4 5.42E-02 EPA, 1999	1.74E+00

Notes:

Does not exceed screening criteria but is considered bioaccumulative.

Exceeds screening criteria but is not considered bioaccumulative.

Exceeds screening criteria and is considered bioaccumulative.

\* For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

EPA, 2007c -- Copper

EPA, 2007e -- Zinc

EPA, 2005e -- Lead

# TABLE J-1-16 RME CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg) SURFACE SOIL SOUTH OF MARLIN AVE.

Cfood = Csoil x BCF (or BAF)

Cfood = Csoil = BCF BAF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Bioconcentration Factor (unitless) Bioaccumulation Factor (unitless)

Compound	RME Csoil	Soil to Earthworm	Earthworm Reference	Soil to Arthropod	Arthropod Reference	e Soil to Plant	Plant/Fruit/Seed Reference	Plant to Wildlife	Plant to Deer Mouse Reference	Soil to Wildlife	Soil to Deer Mouse Reference	TOTAL DEER MOUSE	Plant to Bird	Plant to Bird Reference	Soil to Bird	Soil to Bird Reference	TOTAL BIRD
	(mg/kg)	BCF	Concentration	BCF	Concentration	BAF	Concentration	BCF	Concentration	BCF	Concentration	CONCENTRATION	BCF	Concentration	BCF	Concentration	CONCENTRATION
4,4-DDD	4.98E-02	1.26E+00	6.27E-02 EPA, 1999	1.26E+00		9.37E-03	4.67E-04 EPA, 1999	2.72E-02	1.35E-03 EPA, 1999	6.52E-05	3.25E-06 EPA, 1999	1.36E-03	1.59E-02	7.92E-04 EPA, 1999	5.10E-0		8.17E-04
Aroclor-1254	7.40E-01	1.13E+00	8.36E-01 EPA, 1999	1.13E+00	8.36E-01 EPA, 1999	9 1.00E-02	7.40E-03 EPA, 1999	2.43E-02	1.80E-02 EPA, 1999	5.83E-05	4.31E-05 EPA, 1999	1.80E-02	1.42E-02	1.05E-02 EPA, 1999	4.55E-0	4 3.37E-04 EPA, 1999	1.08E-02
Copper	4.69E+01	4.00E-02	1.88E+00 EPA, 1999	4.00E-02	2 1.88E+00 EPA, 1999	9 4.00E-01	1.88E+01 EPA, 1999		0.00E+00		0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00
Lead	1.04E+02	3.00E-02	3.12E+00 EPA, 1999	3.00E-02	2 3.12E+00 EPA, 1999	9 4.50E-02	4.68E+00 EPA, 1999	1.80E-04	1.87E-02 EPA, 1999	4.32E-07	4.49E-05 EPA, 1999	1.88E-02		0.00E+00		0.00E+00	0.00E+00
Zinc	8.15E+02	5.60E-01	4.57E+02 EPA, 1999	5.60E-01	1 4.57E+02 EPA, 1999	9 1.20E-12	9.78E-10 EPA, 1999	5.39E-05	4.39E-02 EPA, 1999	1.29E-07	1.05E-04 EPA, 1999	4.40E-02	3.89E-03	3.17E+00 EPA, 1999	1.25E-0	4 1.02E-01 EPA, 1999	3.27E+00

Notes:

Does not exceed screening criteria but is considered bioaccumulative.

Exceeds screening criteria but is not considered bioaccumulative.

Exceeds screening criteria and is considered bioaccumulative.

\* For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

EPA, 2007c -- Copper

EPA, 2007e -- Zinc

EPA, 2005e -- Lead

# TABLE J-2-1 EXPOSURE POINT CONCENTATION (mg/kg) SOIL NORTH OF MARLIN AVE.

Parameter	Average	9	95% UCL	Statistic Used
Dieldrin				NC

### Notes:

NC - Not a COPC in soil.

<sup>\*</sup> Recommended UCL exceeds maximum observation so the maximum measured concentration was used as the EPC.

# TABLE J-2-2 EXPOSURE POINT CONCENTATION (mg/kg) SURFACE SOIL NORTH OF MARLIN AVE.

Parameter	Average	95% UCL	Statistic Used
Dieldrin	4.87E-04	0.0034	99% Chebyshev

### Notes:

NS - Not sampled in surface soil.

<sup>\*</sup> Recommended UCL exceeds maximum observation so the maximum measured concentration was used as the EPC.

# TABLE J-2-3 TOXICITY REFERENCE VALUES -- SEVERAL BASED ON LOAELS SURFACE SOIL NORTH OF MARLIN AVE.

Parameter	Earthworm (mg/kg)	Ref.	Comments	Deer Mouse (mg/kgBW-day)	Ref.	Comments	Coyote (mg/kgBW-day)	Ref.	Comments	Rat Snake (mg/kgBW-day)	Ref.	Comments	American Robin (mg/kgBW-day)	Ref.		Red-tailed Hawk (mg/kgBW-day)	Ref.	Comments
						Geometric mean of LOAEL values for survival, reproduction			Geometric mean of LOAEL values for survival, reproduction						Highest bounded NOAEL for growth lower than the lowest bounded LOAEL for			Highest bounded NOAEL for growth lower than the lowest bounded LOAEL for
Dieldrin				1.8	EPA, 2005f	and growth	1.8	EPA, 2005f	and growth	0.0709		Avian TRV	0.0709	EPA, 2005f	reproduction, growth,	0.0709	EPA, 2005f	reproduction, growth,

### Notes:

EPA, 2007a -- DDT
EPA, 2007b -- PAHs
EPA, 2007c -- Copper
EPA, 2007c -- Nickel
EPA, 2007e -- Zinc
EPA, 2007f -- Dieldrin
EPA, 2005a -- Antimony
EPA, 2005b -- Cadmium
EPA, 2005c -- Chromium
EPA, 2005d -- Vanadium
EPA, 2005e -- Lead

## TABLE J-2-4 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL NORTH OF MARLIN EARTHWORM

Ecological Haza	Ecological Hazard Quotient = Sc/TRV											
Parameter	Definition			Defau	lt							
Sc	Soil Concentration (mg/kg)			see be	elow							
TRV	Toxicity Reference Value (m	see TRV summary page										
Chemical	Average Sc	RME Sc	TRV (earthworm)	Average EHQ	RME EHQ							
Dieldrin	0.00E+00	0.00E+00										

### TABLE J-2-5 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN DEER MOUSE

SOIL INGESTION								
INTAKE (0 * 15	* 45 * 415 / (5)40							
INTAKE = (Sc * IR	. * AF * AUF) / (BW)							
Parameter	Definition		Value	Reference				
Intake	Intake of chemical (mg/kg-day)		calculated	Reference				
Sc	Soil concentration (mg/kg)		see data page					
IR	Ingestion rate of soil (kg/day)		2.13E-05	EPA, 1999 (normalized for bw)				
AF	Chemical Bioavailability in soil (unitless)		1	EPA, 1997				
AUF	Area Use Factor		1	EPA, 1997				
BW	Body weight (kg)		1.48E-02 EPA, 1999					
	,			,				
	Average	RME	Average RME					
Chemical	Sc	Sc	Intake	Intake				
Dieldrin	0.00E+00	0.00E+00	0.00E+00	0.00E+00				
Dielailii	0.002+00	0.00L+00	0.002+00	0.002+00				
FOOD INGESTIO	N							
INTAKE = ((Ca * I	R * DFa * AUF) / (BW) + ((Cp * IR * DFs *AUF)/(	(BW))						
Parameter	Definition		Value	Reference				
Intake	Intake of chemical (mg/kg-day)		calculated	Reference				
Ca	Arthropod concentration (mg/kg)		see FoodConc page	<u>.</u>				
Ср	Plant concentration (mg/kg)		see FoodConc page					
IR	Ingestion rate of food (kg/day)		8.87E-03 EPA, 1999 (normalized for bw					
Dfa	Dietary fraction of arthropods (unitless)		5.60E-01 EPA, 1993					
Dfs	Dietary fraction of plants, seeds and other ve	agetation (unitless)	4.40E-01	EPA, 1993				
AUF	Area Use Factor	egetation (unitiess)	4.402-01	EPA, 1997				
BW	Body weight (kg)		1.48E-02	EPA, 1999				
BVV	Body weight (kg)		1.40L-02	LFA, 1999				
	Average RME Average		Average	RME				
Chemical	Arthropod Arthropod Plant	Plant	Intake	Intake				
Dieldrin	7.15E-03 5.00E-02 1.70E-0	05 1.19E-04	2.41E-03	1.68E-02				
Dielaiiii	7.132-03 3.002-02 1.702-0	1.192-04	2.41L-03	1.00L-02				
TOTAL INTAKE								
INTAKE = Soil Inta	ake + Food Intake							
			TOTAL	TOTAL				
			Average	RME				
Chemical			Intake	Intake				
Dieldrin			2.41E-03	1.68E-02				
1								

## TABLE J-2-6 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN COYOTE

Intake Cm	Intake of chem					Value	Reference			
C	intake of chem	nical (mg/k	g-day)			calculated				
ا ا ا ا	Mammal conce	entration (r	ng/kg)			see FoodConc page				
Cb	Bird concentra	ation (mg/kg	g)			see FoodConc pag	e			
R	Ingestion rate	of of food (	(kg/day)			1.55E+00	EPA, 1993 (normalized for bw			
Ofm	Dietary fraction	n of small r	nammals (ui	nitless)	7.50E-01	EPA, 1993				
Ofb	Dietary fraction	n of birds (	unitless)			2.50E-01	EPA, 1993			
\UF	Area Use Fact	tor				1	EPA, 1997			
BW	Body weight (k	kg)				1.55E+01	EPA, 1993			
		Average	RME	Average	RME	Average	RME			

### TABLE J-2-7 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN RAT SNAKE

SOIL INGESTION								
INTAKE = (Sc * IR * AF *	* AUF) / (BW)							
Parameter	D	efinition					Value	Reference
Intake		ntake of chemic	al (mg/kg	r-day)			calculated	Notoronoo
Sc		oil concentration					see data page	
IR .		ngestion rate of					1.45E-04	EPA, 1993 *
AF		hemical Bioava			266)		1.432.04	EPA, 1997
AUF		rea Use Factor		iii 30ii (dilitic	233)		1	EPA, 1997
BW		ody weight (kg					1.39E-01	EPA, 1993
			,				1.002 01	217, 1000
Chemical				Average Sc		RME Sc	Average Intake	RME Intake
Dieldrin				0.00E+00		0.00E+00	0.00E+00	0.00E+00
FOOD INGESTION								
INTAKE = ((Cb * IR * Dfb	o * AUF)/(BW) + (0	Ca * IR * DFa *	AUF) / (I	BW) + ((Cm	* IR * DFm *	AUF)/(BW))		
Parameter		efinition					Value	Reference
Intake	In	take of chemic	al (mg/ko	g-day)			calculated	
Cb	В	ird concentration	on (mg/kg	g)			see FoodConc page	
Ca	A	rthropod conce	ntration (	(mg/kg)			see FoodConc page	
Cm	M	lammal concer	tration (r	ng/kg)			see FoodConc page	1
IR	In	ngestion rate of	of food (	kg/day)			2.78E-03	EPA, 1993 (normalized for bw)
Dfb	D	ietary fraction of	of birds (	unitless)			1.80E-01	EPA, 1993
Dfa	D	ietary fraction o	of arthrop	ods (unitles	ss)		2.00E-01	EPA, 1993
Dfm	D	ietary fraction o	of small r	mammals (u	ınitless)		6.20E-01	EPA, 1993
AUF		rea Úse Factor		,	,		1	EPA, 1997
BW	В	ody weight (kg	)				1.39E-01	EPA, 1993
	Average	RME A	verage	RME	Average	RME	Average	RME
Chemical	Bird	Bird Ar	thropod	Arthropod	Mammal	Mammal	Intake	Intake
Dieldrin	1.79E-06	1.25E-05 7	.15E-03	5.00E-02	2.75E-06	1.92E-05	2.87E-05	2.00E-04
TOTAL INTAKE								
INTAKE = Soil Intake + F	Food Intake							
							TOTAL	TOTAL
Chemical							Average Intake	RME Intake

Notes:
\* Soil ingestion was assumed to be 5.2% of dietary intake per other reptiles listed in EPA, 1993.

#### TABLE J-2-8 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN AMERICAN ROBIN

SOIL INGESTION								
JOIL INGLUTION								
NTAKE = (Sc * IR * A	\F * AUF) / (BW)							
arameter	Γ	Definition					Value	Reference
itake		ntake of chemica	al (mg/kg	-day)			calculated	
С		Soil concentratio					see data page	
₹	b	ngestion rate of	soil (kg/d	lay)			1.14E-03	EPA, 1999 (normalized for bw)
F	C	Chemical Bioava	ailability ir	n soil (unitle	ess)		1	EPA, 1997
UF		Area Use Factor					1	EPA, 1997
sW	E	Body weight (kg)	)				8.00E-02	EPA, 1999
				Average		RME	Average	RME
hemical				Sc		Sc	Intake	Intake
ieldrin				4.87E-04	_	3.40E-03	6.93E-06	4.85E-05
OOD INGESTION								
NTAKE = ((Ce * IR *	Dfe * AUF)/(BW) + (	(Ca * IR * DFa *	AUF) / (B	BW) + ((Cp	* IR * DFs *Al	JF)/(BW))		
arameter	Г	Definition					Value	Reference
ntake	Intake of chemical (mg/kg-day)						calculated	
e	Earthworm concentration (mg/kg)						see FoodConc page	
a	Arthropod concentration (mg/kg)						see FoodConc page	
Эр		Plant concentrati					see FoodConc page	
Ŕ		ngestion rate of					3.52E-02	EPA, 1999 (normalized for bw)
Dfe	Г	Dietary fraction o	of earthwo	orms (unitle	ss)		4.60E-01	EPA, 1993
Ofa		Dietary fraction o					4.60E-01	EPA, 1993
Ofs		Dietary fraction o				on (unitless)	8.00E-02	EPA, 1993
AUF	A	Area Use Factor					1	EPA, 1997
BW	E	Body weight (kg)					8.00E-02	EPA, 1999
	Averege	DME A	70.00	DME	Avorage	RME	Averege	RME
Chemical	Average Earthworm		verage thropod	RME Arthropod	Average Plant	Plant	Average Intake	Intake
Dieldrin		5.00E-02 7.		5.00E-02	1.70E-05	1.19E-04		2.02E-02
леіагіп 	7.15E-03	5.UUE-UZ 1.	15E-03	5.00=-02	1./0=-05	1.19E-04	2.90E-03	Z.UZE-UZ 
OTAL INTAKE								
NTAKE = Soil Intake	+ Food Intake							
							TOTAL	TOTAL
Chemical							Average Intake	RME Intake
Dieldrin							2.90E-03	2.03E-02

## TABLE J-2-9 INTAKE CALCULATIONS FOR SOIL NORTH OF MARLIN RED-TAILED HAWK

Parameter	Definition	Value Reference
ntake	Intake of chemical (mg/kg-day)	calculated
Cm	Mammal concentration (mg/kg)	see FoodConc page
Cb	Bird concentration (mg/kg)	see FoodConc page
R	Ingestion rate of of food (kg/day)	1.78E-01 EPA, 1999 (normalized for b
Ofm	Dietary fraction of small mammals (unitless)	7.85E-01 EPA, 1993
Ofb	Dietary fraction of birds (unitless)	2.15E-01 EPA, 1993
AUF	Area Use Factor	1 EPA, 1997
BW	Body weight (kg)	9.60E-01 EPA, 1999
	Average RME Average R	ME Average RME
Chemical	3.3.	ME Average F ird Intake In

#### TABLE J-2-10 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL NORTH OF MARLIN DEER MOUSE

Ecological Haza	ard Quotient = Intake/TRV				
Parameter	Definition			Defa	ult
Intake	Intake of COPC (mg/kg-day			see I	ntake
TRV	Toxicity Reference Value (m	ng/kg)		see	RV summary page
Chemical	Average Intake	RME Intake	TRV (deer mouse)	Average EHQ	RME EHQ
Dieldrin	2.41E-03	1.68E-02	1.80E+00	1.34E-03	9.34E-03

## TABLE J-2-11 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL NORTH OF MARLIN COYOTE

Ecological Hazai	rd Quotient = Intake/TRV								
Parameter	Definition			Defa	ult				
Intake	Intake of COPC (mg/kg-day	)		see I	ntake				
TRV	Toxicity Reference Value (mg/kg) see TRV summary page								
Chemical	Average	RME	TRV	Average	RME EHQ				
Chemical	Intake	Intake	Coyote	EHQ	ENQ				
Dieldrin	2.51E-07	1.75E-06	1.80E+00	1.39E-07	9.74E-07				

#### TABLE J-2-12 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL NORTH OF MARLIN RAT SNAKE

Ecological Haza	Ecological Hazard Quotient = Intake/TRV											
Parameter	Definition			Defa	ult							
Intake	Intake of COPC (mg/kg-day	)		see I	ntake							
TRV	Toxicity Reference Value (mg/kg) see TRV sum											
Chemical	Average Intake	RME Intake	TRV Rat Snake	Average EHQ	RME EHQ							
Dieldrin	2.87E-05	2.00E-04	7.09E-02	4.04E-04	2.82E-03							

## TABLE J-2-13 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL NORTH OF MARLIN AMERICAN ROBIN

Ecological Hazard Quotient = Intake/TRV											
Parameter	Definition			Defa	ult						
Intake	Intake of COPC (mg/kg-day	)		see I	ntake						
TRV	Toxicity Reference Value (mg/kg) see TRV summ										
	Average	RME	TRV	Average	RME						
Chemical	Intake	Intake	American Robin	EHQ	EHQ						
Dieldrin	2.90E-03	2.03E-02	7.09E-02	4.09E-02	2.86E-01						

# TABLE J-2-14 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR SOIL NORTH OF MARLIN RED-TAILED HAWK

Ecological Hazard Quotient = Intake/TRV											
Parameter	Definition			Defa	ult						
Intake	Intake of COPC (mg/kg-day	Intake of COPC (mg/kg-day) see Intake									
TRV	Toxicity Reference Value (m	see -	TRV summary page								
Chemical	Average Intake	RME Intake	TRV Red-Tailed Hawk	Average EHQ	RME EHQ						
Dieldrin	4.70E-07	3.29E-06	7.09E-02	6.64E-06	4.64E-05						

### TABLE J-2-15 AVERAGE CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg) SURFACE SOIL NORTH OF MARLIN AVE.

Cfood = Csoil x BCF (or BAF)

Cfood = Csoil = BCF BAF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Bioconcentration Factor (unitless) Bioaccumulation Factor (unitless)

Compound	Average Csoil (mg/kg)		Earthworm Reference Concentration		Arthropod Reference oncentration		Plant/Fruit/Seed Reference Concentration	Plant to Wildlife BCF	Plant to Deer Mouse Concentration	Reference	Soil to Wildlife BCF	Soil to Deer Mouse Concentration	Reference	TOTAL DEER MOUSE CONCENTRATION		Plant to Bird Reference Concentration	Soil to Bird Reference Concentration	e TOTAL BIRD CONCENTRATION
Dieldrin	4.87E-04	1.47E+01	7.15E-03 EPA, 2005f	1.47E+01	7.15E-03 EPA, 2005f	3.49E-02	1.70E-05 EPA, 1998	5.65E-03	2.75E-06 E	PA, 1998		0.00E+00		2.75E-06	3.68E-03	1.79E-06 EPA, 1998	0.00E+00	1.79E-06

Notes:
\* For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

### TABLE J-1-16 RME CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg) SURFACE SOIL NORTH OF MARLIN AVE.

Cfood = Csoil x BCF (or BAF)

Cfood = Csoil = BCF BAF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Bioconcentration Factor (unitless) Bioaccumulation Factor (unitless)

Compound	RME Csoil (mg/kg)		Earthworm Reference Concentration		Arthropod Reference oncentration		Plant/Fruit/Seed Reference Concentration		Plant to Deer Mouse Concentration	Reference	Soil to Wildlife BCF	Soil to Deer Mouse Concentration	Reference	TOTAL DEER MOUSE CONCENTRATION		Plant to Bird Reference Concentration	Soil to Bird Concentration	Reference TOTAL BIRD CONCENTRATION
Dieldrin	3.40E-03	1.47E+01	5.00E-02 EPA, 2005f	1.47E+01	5.00E-02 EPA, 2005f	3.49E-02	1.19E-04 EPA, 1998	5.65E-03	1.92E-05 EF	PA, 1998		0.00E+00		1.92E-05	3.68E-03	1.25E-05 EPA, 1998	0.00E+00	1.25E-0

Notes:
\* For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

## TABLE J-3-1 EXPOSURE POINT CONCENTATION (mg/kg) BACKGROUND SOIL

Parameter	Average	95% UCL	Statistic Used
Antimony	0.953	2.19	Maximum*
Barium	333.1	502.3	95% Approx. Gamma
Zinc	247	969	Maximum*

Notes:

\* Recommended UCL exceeds maximum observation so the maximum measured concentration was used as the EPC.

#### TABLE J-3-2 TOXICITY REFERENCE VALUES -- SEVERAL BASED ON LOAELS BACKGROUND SOIL

Parameter	Earthworm (mg/kg)	Ref.	Comments	Deer Mouse (mg/kgBW-day)	Ref.	Comments	Coyote (mg/kgBW-day)	Ref.	Comments	Rat Snake (mg/kgBW-day)	Ref.	Comments	American Robir		Comments	Red-tailed Hawk (mg/kgBW-day)		Comments
Antimony	30	EPA, 2005a	EC20 for earthworms	1.25	Sample, 1996	Chronic LOAEL in mouse	1.25	Sample, 1996	Chronic LOAEL in mouse	1.25		Mammalian TRV	1.25		Mammalian TRV	1.25		Mammalian TRV
Barium	330	EPA, 2005	Geometric mean of the EC20 values for three test species under three separate test			Geometric mean of LOAEL values for survival, reproduction and growth	-	EPA, 2005g	Geometric mean of LOAEL values for survival, reproduction and growth	118.95		Mammalian TRV	118.95		Mammalian TRV	118.95		Mammalian TRV
Zinc	537.998	EPA, 20076	Geometric mean of the MATC for reproduction for two different test species		Sample, 1996	LOAEL	320	Sample, 1996	LOAEL	320	Sample, 1996	LOAEL	320	Sample, 1996	LOAEL	320	Sample, 1996	LOAEL

Notes:

EPA, 2007e -- Zinc EPA, 2005a -- Antimony EPA, 2005g -- Barium

#### TABLE J-3-3 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR BACKGROUND SOIL EARTHWORM

Ecological Haza	rd Quotient = Sc/TRV				
Parameter	Definition			Defa	ult
Sc	Soil Concentration (mg/kg)			see b	elow
TRV	Toxicity Reference Value (n	ng/kg)		see 7	RV summary page
Chemical	Average Sc	RME Sc	TRV (earthworm)	Average EHQ	RME EHQ
Antimony	9.53E-01	2.19E+00	3.00E+01	3.18E-02	7.30E-02
Barium	3.33E+02	5.02E+02	3.30E+02	1.01E+00	1.52E+00
Zinc	2.47E+02	9.69E+02	5.38E+02	4.59E-01	1.80E+00

## TABLE J-3-4 INTAKE CALCULATIONS FOR BACKGROUND SOIL DEER MOUSE

000 000000000			
SOIL INGESTION	V		
INTAKE = (Sc * II	R * AF * AUF) / (BW)		
Parameter	Definition	Value	Reference
Intake	Intake of chemical (mg/kg-day)	calculated	. 10.0.0.00
Sc	Soil concentration (mg/kg)	see data page	
IR	Ingestion rate of soil (kg/day)	2.13E-05	EPA, 1999 (normalized for bw)
AF	Chemical Bioavailability in soil (unitless)	1	EPA, 1997
AUF	Area Use Factor	1	EPA, 1997
BW	Body weight (kg)	1.48E-02	EPA, 1999
			,
	Average RME	Average	RME
Chemical	Sc Sc	Intake	Intake
Antimony	9.53E-01 2.19E+00	1.37E-03	3.15E-03
Barium	3.33E+02 5.02E+02	4.79E-01	7.23E-01
Zinc	2.47E+02 9.69E+02	3.55E-01	1.39E+00
FOOD INGESTIC	DN		
INTAKE = ((Ca *	IR * DFa * AUF) / (BW) + ((Cp * IR * DFs *AUF)/(BW))		
Parameter	Definition	Value	Reference
Intake	Intake of chemical (mg/kg-day)	calculated	
Ca	Arthropod concentration (mg/kg)	see FoodConc pag	е
Ср	Plant concentration (mg/kg)	see FoodConc pag	
IR	Ingestion rate of of food (kg/day)	8.87E-03	EPA, 1999 (normalized for bw)
Dfa	Dietary fraction of arthropods (unitless)	5.60E-01	EPA, 1993
Dfs	Dietary fraction of plants, seeds and other vegetation (unitless)	4.40E-01	EPA, 1993
AUF	Area Use Factor	1	EPA, 1997
BW	Body weight (kg)	1.48E-02	EPA, 1999
	Average RME Average RME	Average	RME
Chemical	Arthropod Arthropod Plant Plant	Intake	Intake
Antimony	2.10E-01 4.82E-01 1.91E-01 4.38E-01	1.21E-01	2.77E-01
Barium	7.33E+01 1.11E+02 5.00E+01 7.53E+01	3.78E+01	5.70E+01
Zinc	1.38E+02 5.43E+02 2.96E-10 1.16E-09	4.64E+01	1.82E+02
ZIIIC	1.302+02 3.432+02 2.902-10 1.102-09	4.042+01	1.02L+02
TOTAL INTAKE			
INTAKE = Soil Int	take + Food Intake		
		TOTAL	TOTAL
Chemical		Average Intake	RME Intake
Antimony		1.22E-01	2.80E-01
Barium		3.83E+01	5.77E+01
Zinc		4.68E+01	1.84E+02

#### TABLE J-3-5 INTAKE CALCULATIONS FOR BACKGROUND SOIL COYOTE

	IR * Dfm * AUF)/(BW) + (Cb *	iik bi b Adi	i ) / (BVV))			
Parameter	Definition				Value	Reference
Intake	Intake of chemical (m	g/kg-day)			calculated	
Cm	Mammal concentratio	n (mg/kg)			see FoodConc pag	ge
Cb	Bird concentration (m	g/kg)			see FoodConc pag	ge
IR	Ingestion rate of of fo	od (kg/day)			1.55E+00	EPA, 1993 (normalized for bw
Dfm	Dietary fraction of sm	all mammals (u	unitless)		7.50E-01	EPA, 1993
Dfb	Dietary fraction of bird	s (unitless)			2.50E-01	EPA, 1993
AUF	Area Use Factor	•			1	EPA, 1997
BW	Body weight (kg)				1.55E+01	EPA, 1993
	Averag	e RME	Average	RME	Average	RME
Chemical	Mamma		Bird	Bird	Intake	Intake
Antimony	5.72E-	04 1.31E-03	0.00E+00	0.00E+00	4.29E-05	9.86E-05
Barium	3.00E-	2 4.53E-02	0.00E+00	0.00E+00	2.25E-03	3.39E-03
Zinc	1.33E-	2 5.24E-02	9.92E-01	3.89E+00	2.58E-02	1.01E-01

### TABLE J-3-6 INTAKE CALCULATIONS FOR BACKGROUND SOIL RAT SNAKE

SOIL INGESTION								
INITALE (O. + ID.+	A E + A L I E \ / (B)A()							
INTAKE = (Sc * IR *	AF " AUF) / (BW)							
Parameter	г	Definition				Value	Reference	
Intake		ntake of chemical (r	na/ka-day/			calculated	Reference	
Sc		Soil concentration (n				see data page		
IR .		ngestion rate of soil				1.45E-04	EPA, 1993 *	
AF		Chemical Bioavailab		ess)		1.432 04	EPA, 1997	
AUF		Area Use Factor	inty iii oon (ariiti	000)		1	EPA, 1997	
BW		Body weight (kg)				1.39E-01	EPA, 1993	
	-	Joay Wolgin (ng)				11002 01	2.74, 1000	
			Average		RME	Average	RME	
Chemical			Sc		Sc	Intake	Intake	
A			0.505.04		0.405.00	0.045.04	0.005.00	
Antimony			9.53E-01		2.19E+00	9.91E-04	2.28E-03	
Barium			3.33E+02		5.02E+02	3.46E-01	5.22E-01	
Zinc			2.47E+02		9.69E+02	2.57E-01	1.01E+00	
FOOD INGESTION								
I OOD INGESTION								
INTAKE = ((Cb * IR	* Dfb * AUF)/(BW) + (	Ca * IR * DFa * AUI	F) / (BW) + ((Cn	n * IR * DFm *	AUF)/(BW))			
((	/ / /		, · · · / · · · ·		- / ( //			
Parameter	[	Definition				Value	Reference	
Intake		ntake of chemical (n	ng/kg-day)			calculated		
Cb		Bird concentration (n				see FoodConc page	•	
Ca	A	Arthropod concentra	tion (mg/kg)			see FoodConc page	•	
Cm	N	Mammal concentrati	on (mg/kg)			see FoodConc page	•	
IR		ngestion rate of of fo				2.78E-03	EPA, 1993 (normalized for I	bw)
Dfb		Dietary fraction of bi				1.80E-01	EPA, 1993	,
Dfa		Dietary fraction of ar		ss)		2.00E-01	EPA, 1993	
Dfm		Dietary fraction of sn				6.20E-01	EPA, 1993	
AUF		Area Use Factor		,		1	EPA, 1997	
BW		Body weight (kg)				1.39E-01	EPA, 1993	
		Joay Wolgin (Ng)				11002 01	2.74, 1000	
	Average	RME Avera		Average	RME	Average	RME	
Chemical	Bird	Bird Arthro	ood Arthropod	Mammal	Mammal	Intake	Intake	
A	0.005.00	0.005.00 0.405	04 4 00 5 04	5 <b>7</b> 05 04	4.245.02	0.405.04	4.045.00	
Antimony	0.00E+00	0.00E+00 2.10E			1.31E-03	8.46E-04	1.94E-03	
Barium	0.00E+00	0.00E+00 7.33E-			4.53E-02	2.94E-01	4.43E-01	
Zinc	9.92E-01	3.89E+00 1.38E-	+02 5.43E+02	1.33E-02	5.24E-02	5.57E-01	2.19E+00	
TOTAL INTAKE								
TOTAL INTAKE								
INTAKE = Soil Intak	e + Food Intake							
	o i i ood iiilailo							
						TOTAL	TOTAL	_
						Average	RME	
Chemical						Intake	Intake	
Antimony						1.84E-03	4.22E-03	
Barium						6.40E-01	9.65E-01	
Zinc						8.14E-01	3.19E+00	
I								

Notes:

\* Soil ingestion was assumed to be 5.2% of dietary intake per other reptiles listed in EPA, 1993.

#### TABLE J-3-7 INTAKE CALCULATIONS FOR BACKGROUND SOIL AMERICAN ROBIN

SOIL INGESTION							
NTAKE = (Sc * IR * AF	F * AUF) / (BW)						
Parameter	D <sub>f</sub>	efinition				Value	Reference
ntake	In	take of chemical (m	g/kg-day)			calculated	
Sc		oil concentration (m	0 0,			see data page	
R		gestion rate of soil (				1.14E-03	EPA, 1999 (normalized for by
AF		hemical Bioavailabil	lity in soil (unitle	ess)		1	EPA, 1997
AUF		rea Use Factor				1	EPA, 1997
BW	Bo	ody weight (kg)				8.00E-02	EPA, 1999
			Average		RME	Average	RME
Chemical			Sc		Sc	Intake	Intake
Antimony			9.53E-01		2.19E+00	1.36E-02	3.12E-02
Barium			3.33E+02		5.02E+02	4.75E+00	7.16E+00
Zinc			2.47E+02		9.69E+02	3.52E+00	1.38E+01
FOOD INGESTION							
INTAKE = ((Ce * IR * D	Ofe * AUF)/(BW) + (C	Ca * IR * DFa * AUF	) / (BW) + ((Cp	* IR * DFs *AI	JF)/(BW))		
Parameter	D	efinition				Value	Reference
Intake		take of chemical (m	g/kg-day)			calculated	1101010100
Ce		arthworm concentra				see FoodConc page	e
Ca		rthropod concentrati				see FoodConc page	
Ср		lant concentration (n				see FoodConc page	
ir.	In	gestion rate of of fo	od (kg/day)			3.52E-02	EPA, 1999 (normalized for by
Dfe	Di	ietary fraction of ear	thworms (unitle	ess)		4.60E-01	EPA, 1993
Dfa	Di	ietary fraction of arth	nropods (unitles	ss)		4.60E-01	EPA, 1993
Dfs	Di	ietary fraction of pla	nts, seeds and	other vegetati	on (unitless)	8.00E-02	EPA, 1993
AUF	Ar	rea Use Factor				1	EPA, 1997
BW	Во	ody weight (kg)				8.00E-02	EPA, 1999
	Average	RME Average	e RMF	Average	RME	Average	RMF
Chemical	Average Earthworm E	RME Averag Earthworm Arthrop	je RME od Arthropod	Average Plant	RME Plant	Average Intake	RME Intake
Chemical Antimony			od Arthropod	Plant			
Antimony Barium	Earthworm E	Earthworm Arthrop	01 4.82E-01	1.91E-01	Plant	Intake	Intake
Antimony Barium	2.10E-01	4.82E-01 2.10E-	01 4.82E-01 01 1.11E+02	1.91E-01 5.00E+01	Plant 4.38E-01	9.16E-02	Intake 2.10E-01
	2.10E-01 7.33E+01	4.82E-01 2.10E- 1.11E+02 7.33E+	01 4.82E-01 01 1.11E+02	1.91E-01 5.00E+01	Plant 4.38E-01 7.53E+01	9.16E-02 3.14E+01	Intake 2.10E-01 4.74E+01
Antimony Barium Zinc	2.10E-01 7.33E+01 1.38E+02	4.82E-01 2.10E- 1.11E+02 7.33E+	01 4.82E-01 01 1.11E+02	1.91E-01 5.00E+01	Plant 4.38E-01 7.53E+01	9.16E-02 3.14E+01	Intake 2.10E-01 4.74E+01
Antimony Barium Zinc	2.10E-01 7.33E+01 1.38E+02	4.82E-01 2.10E- 1.11E+02 7.33E+	01 4.82E-01 01 1.11E+02	1.91E-01 5.00E+01	Plant 4.38E-01 7.53E+01	9.16E-02 3.14E+01 5.60E+01	Intake 2.10E-01 4.74E+01 2.20E+02
Antimony Barium Zinc	2.10E-01 7.33E+01 1.38E+02	4.82E-01 2.10E- 1.11E+02 7.33E+	01 4.82E-01 01 1.11E+02	1.91E-01 5.00E+01	Plant 4.38E-01 7.53E+01	9.16E-02 3.14E+01 5.60E+01	Intake 2.10E-01 4.74E+01 2.20E+02
Antimony Barium Zinc FOTAL INTAKE NTAKE = Soil Intake +	2.10E-01 7.33E+01 1.38E+02	4.82E-01 2.10E- 1.11E+02 7.33E+	01 4.82E-01 01 1.11E+02	1.91E-01 5.00E+01	Plant 4.38E-01 7.53E+01	9.16E-02 3.14E+01 5.60E+01	Intake 2.10E-01 4.74E+01 2.20E+02
Antimony Barium Zinc	2.10E-01 7.33E+01 1.38E+02	4.82E-01 2.10E- 1.11E+02 7.33E+	01 4.82E-01 01 1.11E+02	1.91E-01 5.00E+01	Plant 4.38E-01 7.53E+01	9.16E-02 3.14E+01 5.60E+01 TOTAL Average	Intake 2.10E-01 4.74E+01 2.20E+02  TOTAL RME
Antimony Barium Zinc  TOTAL INTAKE INTAKE = Soil Intake +	2.10E-01 7.33E+01 1.38E+02	4.82E-01 2.10E- 1.11E+02 7.33E+	01 4.82E-01 01 1.11E+02	1.91E-01 5.00E+01	Plant 4.38E-01 7.53E+01	9.16E-02 3.14E+01 5.60E+01 TOTAL Average Intake	Intake 2.10E-01 4.74E+01 2.20E+02  TOTAL RME Intake

#### TABLE J-3-8 INTAKE CALCULATIONS FOR BACKGROUND SOIL RED-TAILED HAWK

	, , , ,		F) / (BW))			
Parameter	Definition				Value	Reference
Intake	Intake of chemical (mg	/kg-day)			calculated	
Cm	Mammal concentration	(mg/kg)			see FoodConc pag	ge
Cb	Bird concentration (mg	/kg)			see FoodConc pag	ge
IR	Ingestion rate of of foo	d (kg/day)			1.78E-01	EPA, 1999 (normalized for bw
Dfm	Dietary fraction of sma	ll mammals (u	ınitless)		7.85E-01	EPA, 1993
Dfb	Dietary fraction of birds	(unitless)			2.15E-01	EPA, 1993
AUF	Area Use Factor	•			1	EPA, 1997
BW	Body weight (kg)				9.60E-01	EPA, 1999
	Average	RME	Average	RME	Average	RME
Chemical	Mamma		Bird	Bird	Intake	Intake
Antimony	5.72E-0	4 1.31E-03	0.00E+00	0.00E+00	8.31E-05	1.91E-04
Barium	3.00E-0	2 4.53E-02	0.00E+00	0.00E+00	4.36E-03	6.57E-03
Zinc	1.33E-0	2 5.24E-02	9.92E-01	3.89E+00	4.14E-02	1.62E-01

## TABLE J-3-9 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR BACKGROUND SOIL DEER MOUSE

Ecological Hazai	rd Quotient = Intake/TRV				
Parameter	Definition			Defa	
Intake	Intake of COPC (mg/kg-day			see I	ntake
TRV	Toxicity Reference Value (n	ng/kg)		see T	RV summary page
Chemical	Average Intake	RME Intake	TRV (deer mouse)	Average EHQ	RME EHQ
Antimony	1.22E-01	2.80E-01	1.25E+00	9.76E-02	2.24E-01
Barium	3.83E+01	5.77E+01	1.19E+02	3.22E-01	4.85E-01
Zinc	4.68E+01	1.84E+02	3.20E+02	1.46E-01	5.73E-01

## TABLE J-3-10 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR BACKGROUND SOIL COYOTE

Ecological Haza	rd Quotient = Intake/TRV				
Parameter	Definition			Defa	ult
Intake	Intake of COPC (mg/kg-day	)		see I	ntake
TRV	Toxicity Reference Value (n	ng/kg)		see 1	RV summary page
Chemical	Average Intake	RME Intake	TRV Coyote	Average EHQ	RME EHQ
Antimony	4.29E-05	9.86E-05	1.25E+00	3.43E-05	7.89E-05
Barium	2.25E-03	3.39E-03	1.19E+02	1.89E-05	2.85E-05
Zinc	2.58E-02	1.01E-01	3.20E+02	8.06E-05	3.16E-04

## TABLE J-3-11 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR BACKGROUND SOIL SOUTH OF MARLIN RAT SNAKE

Ecological Haza	rd Quotient = Intake/TRV				
Parameter	Definition			Defa	ult
Intake	Intake of COPC (mg/kg-day	)		see I	ntake
TRV	Toxicity Reference Value (n	ng/kg)		see 1	RV summary page
Chemical	Average Intake	RME Intake	TRV Rat Snake	Average EHQ	RME EHQ
Antimony	1.84E-03	4.22E-03	1.25E+00	1.47E-03	3.38E-03
Barium	6.40E-01	9.65E-01	1.19E+02	5.38E-03	8.11E-03
Zinc	8.14E-01	3.19E+00	3.20E+02	2.54E-03	9.98E-03

#### TABLE J-3-12 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR BACKGROUND SOIL AMERICAN ROBIN

Ecological Hazai	d Quotient = Intake/TRV				
Parameter	Definition			Defa	
Intake	Intake of COPC (mg/kg-day			see I	ntake
TRV	Toxicity Reference Value (n	ng/kg)		see 1	TRV summary page
Chemical	Average Intake	RME Intake	TRV American Robin	Average EHQ	RME EHQ
Antimony	1.05E-01	2.42E-01	1.25E+00	8.41E-02	1.93E-01
Barium	3.62E+01	5.45E+01	1.19E+02	3.04E-01	4.59E-01
Zinc	5.95E+01	2.33E+02	3.20E+02	1.86E-01	7.30E-01

#### TABLE J-3-13 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR BACKGROUND SOIL RED-TAILED HAWK

Ecological Haza	rd Quotient = Intake/TRV				
Parameter	Definition			Defa	ult
Intake	Intake of COPC (mg/kg-day	)		see I	ntake
TRV	Toxicity Reference Value (m	ng/kg)		see 7	FRV summary page
Chemical	Average Intake	RME Intake	TRV Red-Tailed Hawk	Average EHQ	RME EHQ
Antimony	8.31E-05	1.91E-04	1.25E+00	6.65E-05	1.53E-04
Barium	4.36E-03	6.57E-03	1.19E+02	3.66E-05	5.53E-05
Zinc	4.14E-02	1.62E-01	3.20E+02	1.29E-04	5.07E-04

### TABLE J-3-14 AVERAGE CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg) BACKGROUND SOIL

Cfood = Csoil x BCF (or BAF)

Cfood = Csoil = BCF BAF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Bioconcentration Factor (unitless) Bioaccumulation Factor (unitless)

Compound	Average Csoil		Earthworm Reference	Soil to Arthropod			Plant/Fruit/Seed Reference	Plant to Wildlife		nce Soil to Wildlife				Plant to Bird Reference	Soil to Bird		
	(mg/kg)	BCF	Concentration	BCF	Concentration	BAF	Concentration	BCF	Concentration	BCF	Concentration	CONCENTRATION	BCF	Concentration	BCF	Concentration	CONCENTRATION
Antimony	9.53E-01	2.20E-01	2.10E-01 EPA, 1999	2.20E-01	1 2.10E-01 EP	PA, 1999 2.00E-01	1.91E-01 EPA, 1999	5.99E-04	5.71E-04 EPA, 19	9 1.44E-06	5 1.37E-06 EPA, 1999	5.72E-04		0.00E+00		0.00E+00	0.00E+00
Barium	3.33E+02	2.20E-01	7.33E+01 EPA, 1999	2.20E-01	1 7.33E+01 EP	PA, 1999 1.50E-01	5.00E+01 EPA, 1999	8.99E-05	2.99E-02 EPA, 19	9 2.16E-07	7 7.19E-05 EPA, 1999	3.00E-02		0.00E+00		0.00E+00	0.00E+00
Zinc	2.47E+02	5.60E-01	1.38E+02 EPA, 1999	5.60E-01	1 1.38E+02 EP	PA, 1999 1.20E-12	2.96E-10 EPA, 1999	5.39E-05	1.33E-02 EPA, 19	9 1.29E-07	7 3.19E-05 EPA, 1999	1.33E-02	3.89E-03	9.61E-01 EPA, 1999	1.25E-0	4 3.09E-02 EPA, 1	999 9.92E-01

Notes:

Does not exceed screening criteria but is considered bioaccumulative.

Exceeds screening criteria but is not considered bioaccumulative.

Exceeds screening criteria and is considered bioaccumulative.

Exceeds screening criteria and is considered bioaccumulative.

\*For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

EPA, 2007e -- Zinc

EPA, 2005a -- Antimony

### TABLE J-3-15 RME CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg) BACKGROUND SOIL

Cfood = Csoil x BCF (or BAF)

Cfood = Csoil = BCF BAF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Bioconcentration Factor (unitless) Bioaccumulation Factor (unitless)

Compound	RME Csoil	Soil to Earthworm	Earthworm Reference	Soil to Arthropod	Arthropod Reference	e Soil to Plant	Plant/Fruit/Seed Reference	Plant to Wildlife	Plant to Deer Mouse R	eference	Soil to Wildlife S	Soil to Deer Mouse Reference	TOTAL DEER MOUSE	Plant to Bird	Plant to Bird Reference	Soil to Bird	Soil to Bird Reference	TOTAL BIRD
•	(mg/kg)	BCF	Concentration	BCF	Concentration	BAF	Concentration	BCF	Concentration		BCF	Concentration	CONCENTRATION	BCF	Concentration	BCF	Concentration	CONCENTRATION
Antimony	2.19E+00	2.20E-01	4.82E-01 EPA, 1999	2.20E-01	1 4.82E-01 EPA, 1999	2.00E-01	4.38E-01 EPA, 1999	5.99E-04	1.31E-03 EPA	, 1999	1.44E-06	3.15E-06 EPA, 1999	1.31E-03		0.00E+00		0.00E+00	0.00E+00
Barium	5.02E+02	2.20E-01	1.11E+02 EPA, 1999	2.20E-01	1 1.11E+02 EPA, 1999	1.50E-01	7.53E+01 EPA, 1999	8.99E-05	4.52E-02 EPA	, 1999	2.16E-07	1.08E-04 EPA, 1999	4.53E-02		0.00E+00		0.00E+00	0.00E+00
Zinc	9.69F+02	5.60E-01	5.43E+02 EPA, 1999	5.60E-01	1 5.43E+02 EPA, 1999	1.20F-12	1.16E-09 EPA, 1999	5.39E-05	5.22F-02 EPA	. 1999	1.29E-07	1.25E-04 EPA, 1999	5.24F-02	3.89E-03	3.77E+00 EPA, 1999	1.25E-0	4 1.21F-01 EPA, 1999	3.89E+00

Notes:

Does not exceed screening criteria but is considered bioaccumulative.

Exceeds screening criteria but is not considered bioaccumulative.

Exceeds screening criteria and is considered bioaccumulative.

Exceeds screening criteria and is considered bioaccumulative.

For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

EPA, 2007a - DDT

EPA, 2007b - PAHs

EPA, 2007c - Copper

EPA, 2007c - Cinc

EPA, 2007c - Zinc

EPA, 2005a - Antimony

EPA, 2005b - Cadmium

EPA, 2005c - Chromium

EPA, 2005c - Chromium

EPA, 2005c - Chandium

EPA, 2005c - Chandium

EPA, 2005c - Chandium

EPA, 2005c - Lead

# TABLE J-4-1 EXPOSURE POINT CONCENTATION (mg/kg) POND SEDIMENT

Parameter	Average	95% UCL	Statistic Used
4,4'-DDT	4.16E-03	1.57E-03	RME EPC is max detect*
Nickel	1.63E+01	2.06E+01	RME EPC is max detect

#### Notes:

\*The maximum detected value is sometimes lower than the average since the reporting limit was used as a proxy value when it was not detected and because J flag data were used in the risk assessment.

### TABLE J-4-2 TOXICITY REFERENCE VALUES - WITH SEVERAL LOAELS POND SEDIMENT

Parameter	Capitella capitata (mg/kg)	Ref.	Comments	Capitella capitata (mg/kg)	Ref.	Comments	Fiddler Crab (mg/kgBW-day)	Ref.	Comments	Black Drum (mg/kgBW-day)	Ref.	Comments	Spotted seatrout (mg/kgBW-day)	Ref.	Comments	Sandpiper (mg/kgBW-day)	Ref.	Comments	Green heron (mg/kgBW-day)	Ref.	Comments
																		Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction,			Highest bounded NOAEL for growth and reproduction lower than the lowest bounded LOAEL for reproduction,
4,4'-DDT	0.001	SQUIRT	ERL	0.007	SQUIRT	ERM	0.147	EPA, 2007a	mammalian TRV for soil	0.147	EPA, 2007a	mammalian TRV for soil	0.147	EPA, 2007a	mammalian TRV for soil	0.227	EPA, 2007a	growth, and survival	0.227	EPA, 2007a	growth, and survival
																		Geometric mean of LOAEL for reproduction,			Geometric mean of LOAEL for reproduction, growth,
Nickel	20.9	SQUIRT	ERL	51.6	SQUIRT	ERM	1.7	EPA, 2007d	mammalian TRV for soil	1.7	EPA, 2007d	mammalian TRV for soil	1.7	EPA, 2007d	mammalian TRV for soil	21.66	EPA, 2007d	growth, and survival	21.66	EPA, 2007d	and survival

Notes: ERL -- Effects Range-Low AET -- Apparent Effects Threshold TEL -- Threshold Effects Level

EPA, 2007a -- DDT EPA, 2007d -- Nickel

## TABLE J-4-3 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR POND SEDIMENT CAPITELLA CAPITATA

Ecological Hazard	Quotient = Sc/TRV				
Parameter	Definition			Defa	ult
Sc	Soil Concentration (mg/kg)			see b	elow
TRV	Toxicity Reference Value (r	mg/kg)		see	RV summary page
Chemical	Average Sc	RME Sc	TRV capitella capitata	Average EHQ	RME EHQ
4,4'-DDT	4.16E-03	1.57E-03	1.00E-03	4.16E+00	1.57E+00

## TABLE J-4-4 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR POND SEDIMENT CAPITELLA CAPITATA -- MIDPOINT BETWEEN ERL AND ERM COMPARISON

Ecological Hazard	Quotient = Sc/TRV				
Parameter	Definition			Defa	ult
Sc TRV	Soil Concentration (mg/kg) Toxicity Reference Value (r				oelow FRV summary page
	Average	RME	TRV	Average	RME
Chemical	Sc	Sc	capitella capitata	EHQ	EHQ
4,4'-DDT Nickel	4.16E-03 1.63E+01	1.57E-03 2.06E+01	4.00E-03 3.63E+01	1.04E+00 4.50E-01	3.93E-01 5.68E-01

### TABLE J-4-5 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR POND SEDIMENT CAPITELLA CAPITATA -- ERM COMPARISON

Parameter	Definition	Default
Sc	Soil Concentration (mg/kg)	see below
TRV	Toxicity Reference Value (mg/kg)	see TRV summary page

Chemical	Average	RME	TRV	Average	RME
	Sc	Sc	capitella capitata	EHQ	EHQ
4,4'-DDT	4.16E-03	1.57E-03	7.00E-03	5.94E-01	2.24E-01
Nickel	1.63E+01	2.06E+01	5.16E+01	3.16E-01	3.99E-01

#### TABLE J-4-6 INTAKE CALCULATIONS FOR POND SEDIMENT FIDDLER CRAB

SEDIMENT INGES	NOITS				
SEDIMENT INGES	STION				
INTAKE = (Sc * IR	* AF * AUF) / (BW)				
Parameter	Definition			Value	Reference
Intake	Intake of chemica	(ma/ka-day)		calculated	Reference
Sc	Sed concentration			see data page	
IR	Ingestion rate of s	· · · · · · · · · · · · · · · · · · ·		1.16E-05	Cammen, 1979
AF	•	ability in sediment (unitle	ess)	1	EPA, 1997
AUF	Area Use Factor			1	EPA, 1997
BW	Body weight (kg)			9.00E-03	based on width/length eq.
		Averege	RME	Average	RME
Chemical		Average Sc	Sc	Average Intake	Intake
4,4'-DDT		4.16E-03	1.57E-03	5.34E-06	2.02E-06
Nickel		1.63E+01	2.06E+01	2.10E-02	2.65E-02
FOOD INGESTION	N				
INTAKE = (Ci * IR	* DFi * AUF) / (BW)				
Parameter	Definition			Value	Reference
Intake	Intake of chemica	l (mg/kg-day)		calculated	TOTOTOTO
Ci	Invertebrate conce			see FoodConc pa	age
IR	Ingestion rate of o	f food (kg/day)		1.16E-05	Cammen, 1979
Dfi	•	invertebrates (unitless)		1.00E+00	TPWD website
AUF	Area Use Factor			1	EPA, 1997
BW	Body weight (kg)			9.00E-03	based on width/length eq.
		A	DME	A	DME
Chemical		Averaç	ge RME rate Invertebrate	Average Intake	RME Intake
Crieffical		iliverteb	iale invertebrate	IIIIake	IIIIane
4,4'-DDT		3.33E	-03 1.26E-03	4.27E-06	1.61E-06
Nickel		1.47E-	+01 1.85E+01	1.89E-02	2.38E-02
TOTAL INTAKE					
I O I AL IIVI AILL					
INTAKE = Sedime	nt Intake + Food Intak	e			
				TOTAL	TOTAL
				Average	RME
Chemical				Intake	Intake
4,4'-DDT				9.62E-06	3.63E-06
Nickel				9.62E-06 3.98E-02	3.63E-06 5.03E-02
INICION				3.90E=U2	3.03∟-02
1					

### TABLE J-4-7 INTAKE CALCULATIONS FOR POND SEDIMENT SANDPIPER

NTAKE = (Sc * IR * AF * A	AUF) / (BW)				
Parameter	Definition			Value	Reference
ntake	Intake of chemical (mg/kg-day	/)		calculated	
Sc .	Sediment concentration (mg/k			see data page	
R	Ingestion rate of sed (kg/day)	9/		2.10E-02	EPA, 1993
λF	Chemical Bioavailability in sec	diment (unitless)		1	EPA, 1997
 AUF	Area Use Factor	(u)		1	EPA, 1997
BW	Body weight (kg)			2.15E-01	Dunning, 1993
Ole and and		erage	RME	Average	RME
Chemical		Sc	Sc	Intake	Intake
1.4'-DDT	4 16	6E-03	1.57E-03	4.06E-04	1.53E-04
Nickel		BE+01	2.06E+01	1.59E+00	2.01E+00
FOOD INGESTION					
NTAKE = ((Cc * IR * Dfc *	* AUF)/(BW) + (Cw * IR * DFwa * AUF) / (BW	′)			
Parameter	Definition			Value	Reference
ntake	Intake of chemical (mg/kg-day	<u>')</u>		calculated	
Cc	Crab concentration (mg/kg)			see FoodConc page	
Cw	Worm concentration (mg/kg)			see FoodConc page	
		av)		4 005 04	EPA, 1993
R	Ingestion rate of of food (kg/da			1.08E-01	,
Ofc	Dietary fraction of crabs (unitle	ess)		4.00E-01	prof. judgement
Ofc Ofw	Dietary fraction of crabs (unitle Dietary fraction of worms (unit	ess)		4.00E-01 6.00E-01	prof. judgement prof. judgement
Ofc Ofw AUF	Dietary fraction of crabs (unitle	ess)		4.00E-01 6.00E-01 1	prof. judgement prof. judgement EPA, 1997
Ofc Ofw	Dietary fraction of crabs (unitle Dietary fraction of worms (unit	ess)		4.00E-01 6.00E-01	prof. judgement prof. judgement
Ofc Ofw AUF	Dietary fraction of crabs (unitle Dietary fraction of worms (unit Area Use Factor Body weight (kg)	ess) tless)	RMF	4.00E-01 6.00E-01 1 2.15E-01	prof. judgement prof. judgement EPA, 1997 Dunning, 1993
Ofc Ofw AUF	Dietary fraction of crabs (unitle Dietary fraction of worms (unit Area Use Factor Body weight (kg)	ess)	RME Worm	4.00E-01 6.00E-01 1	prof. judgement prof. judgement EPA, 1997
Ofc Ofw AUF BW	Dietary fraction of crabs (unitle Dietary fraction of worms (unitle Area Use Factor Body weight (kg)  Average R Crab C	ess) tless)  ME Average		4.00E-01 6.00E-01 1 2.15E-01	prof. judgement prof. judgement EPA, 1997 Dunning, 1993
Ofc Ofw AUF BW Chemical	Dietary fraction of crabs (unitual Dietary fraction of worms (unitual Area Use Factor Body weight (kg)  Average R Crab C  1.67E-02 6.3	ME Average	Worm	4.00E-01 6.00E-01 1 2.15E-01 Average Intake	prof. judgement prof. judgement EPA, 1997 Dunning, 1993 RME Intake
Ofc Ofw AUF BW Chemical 4,4'-DDT dickel	Dietary fraction of crabs (unitual Dietary fraction of worms (unitual Area Use Factor Body weight (kg)  Average R Crab C  1.67E-02 6.3	ME Average rab Worm	1.26E-03	4.00E-01 6.00E-01 1 2.15E-01 Average Intake	prof. judgement prof. judgement EPA, 1997 Dunning, 1993 RME Intake
Ofc Ofw AUF SW Chemical	Dietary fraction of crabs (unitual Dietary fraction of worms (unitual Area Use Factor Body weight (kg)  Average R Crab C  1.67E-02 6.3	ME Average rab Worm	1.26E-03	4.00E-01 6.00E-01 1 2.15E-01 Average Intake	prof. judgement prof. judgement EPA, 1997 Dunning, 1993 RME Intake
Ofc Ofw AUF BW Chemical 4,4'-DDT dickel	Dietary fraction of crabs (united Dietary fraction of worms (united Dietary fraction of worms (united Proceedings of Proceedings of Proceedings of Procedure of P	ME Average rab Worm	1.26E-03	4.00E-01 6.00E-01 1 2.15E-01 Average Intake	prof. judgement prof. judgement EPA, 1997 Dunning, 1993 RME Intake
Ofc Ofw AUF BW Chemical 4,4'-DDT Vickel FOTAL INTAKE	Dietary fraction of crabs (united Dietary fraction of worms (united Dietary fraction of worms (united Proceedings of Proceedings of Proceedings of Procedure of P	ME Average rab Worm	1.26E-03	4.00E-01 6.00E-01 1 2.15E-01 Average Intake	prof. judgement prof. judgement EPA, 1997 Dunning, 1993 RME Intake
Ofc Ofw AUF BW Chemical 4,4'-DDT Vickel FOTAL INTAKE	Dietary fraction of crabs (united Dietary fraction of worms (united Dietary fraction of worms (united Proceedings of Proceedings of Proceedings of Procedure of P	ME Average rab Worm	1.26E-03	4.00E-01 6.00E-01 1 2.15E-01 Average Intake 4.36E-03 4.43E+00	prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  1.65E-03 5.59E+00
Ofc Ofw AUF BW Chemical 4,4'-DDT Vickel FOTAL INTAKE	Dietary fraction of crabs (united Dietary fraction of worms (united Dietary fraction of worms (united Proceedings of Proceedings of Proceedings of Procedure of P	ME Average rab Worm	1.26E-03	4.00E-01 6.00E-01 1 2.15E-01 Average Intake 4.36E-03 4.43E+00	prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  1.65E-03 5.59E+00
Ofc Ofw AUF BW Chemical 4,4'-DDT Nickel FOTAL INTAKE NTAKE = Sediment Intake	Dietary fraction of crabs (united Dietary fraction of worms (united Dietary fraction of worms (united Proceedings of Proceedings of Proceedings of Procedure of P	ME Average rab Worm	1.26E-03	4.00E-01 6.00E-01 1 2.15E-01 Average Intake 4.36E-03 4.43E+00 TOTAL Average Intake	prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  1.65E-03 5.59E+00  TOTAL RME Intake
Ofc Dfw AUF BW Chemical 1,4'-DDT dickel FOTAL INTAKE NTAKE = Sediment Intake	Dietary fraction of crabs (united Dietary fraction of worms (united Dietary fraction of worms (united Proceedings of Proceedings of Proceedings of Procedure of P	ME Average rab Worm	1.26E-03	4.00E-01 6.00E-01 1 2.15E-01 Average Intake 4.36E-03 4.43E+00	prof. judgement prof. judgement EPA, 1997 Dunning, 1993  RME Intake  1.65E-03 5.59E+00  TOTAL RME

#### TABLE J-4-8 INTAKE CALCULATIONS FOR POND SEDIMENT GREEN HERON

ntake Cf Cc R	Intake of chemical (mo Fish concentration (mo Crab concentration (mo	g/kg)			calculated				
Cc	Crab concentration (m								
	•				see FoodConc page	see FoodConc page			
R		g/kg)		see FoodConc page	see FoodConc page				
	Ingestion rate of of foo	d (kg/day)		1.13E-01	EPA, 1993				
OFf .	Dietary fraction of fish	(unitless)			7.50E-01	Kent, 1986			
DFc	Dietary fraction of crat	(unitless)			2.50E-01	Kent, 1986			
AUF	Area Use Factor				1	EPA, 1997			
3W	Body weight (kg)		3.75E-01	Dunning, 1993					
	Average	RME	Average	RME	Average	RME			
Chemical	Fish	Fish	Crab	Crab	Intake	Intake			

## TABLE J-4-9 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR POND SEDIMENT FIDDLER CRAB

Ecological Hazai	rd Quotient = Intake/TRV							
Parameter Definition Default								
Intake	ke Intake of COPC (mg/kg-day) see Intake							
TRV	Toxicity Reference Value (m	see T	TRV summary page					
Chemical	Average Intake	RME Intake	TRV Fiddler Crab	Average EHQ	RME EHQ			
4,4'-DDT	9.62E-06	3.63E-06	1.47E-01	6.54E-05	2.47E-05			
Nickel	3.98E-02	5.03E-02	1.70E+00	2.34E-02	2.96E-02			

## TABLE J-4-10 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR POND SEDIMENT SANDPIPER

Ecological Hazard	d Quotient = Intake/TRV								
Parameter Definition Default									
Intake TRV	Intake of COPC (mg/kg-day Toxicity Reference Value (n		see Intake see TRV summary page						
Chamical	Average	RME	TRV	Average	RME				
Chemical 4.4'-DDT	Average Intake 4,77E-03	RME Intake	TRV Sandpiper 2.27E-01	Average EHQ 2.10E-02	<b>RME EHQ</b> 7.93E-03				

#### TABLE J-4-11 ECOLOGICAL HAZARD QUOTIENT CALCULATIONS FOR POND SEDIMENT GREEN HERON

d Quotient = Intake/TRV									
Parameter Definition Default									
ake Intake of COPC (mg/kg-day) see Intake									
Toxicity Reference Value (n	ng/kg)		see 7	TRV summary page					
Average Intake	RME Intake	TRV Green Heron	Average EHQ	RME EHQ					
4.005.00	0.705.04	2.27E-01	7.92E-03	2.99E-03					
	Definition Intake of COPC (mg/kg-day Toxicity Reference Value (n  Average Intake	Definition Intake of COPC (mg/kg-day) Toxicity Reference Value (mg/kg)  Average RME	Definition Intake of COPC (mg/kg-day) Toxicity Reference Value (mg/kg)  Average RME TRV Intake Intake Green Heron	Definition  Intake of COPC (mg/kg-day)  Toxicity Reference Value (mg/kg)  Average Intake  RME  TRV  Average Intake  Intake  Green Heron  EHQ	Definition  Intake of COPC (mg/kg-day) Toxicity Reference Value (mg/kg)  Average Intake Intake RME Intake RME Green Heron  RME EHQ  RME EHQ				

#### TABLE J-4-12 AVERAGE CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg) POND SEDIMENT

### Cfood = Csed x BSAF (or BSAF or BCF with food chain multiplier)

where:

Cfood = Csed = BSAF BCF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Biota to Sediment Accumulation Factor (unitless)

Bioconcentration Factor (unitless)

Compound	Average Csed (mg/kg)	Sediment to Worm BSAF	Worm Concentration	Reference	Sediment to Crab BSAF	Crab Concentration	Reference	Sediment to Fish BSAF	Fish Concentration	Reference
4,4'-DDT Nickel	4.16E-03 1.63E+01	8.00E-01 9.00E-01	3.33E-03 E 1.47E+01 E	_	4.02E+00	1.67E-02 0.00E+00	BSAF DB	5.80E-01 5.40E-02		WSDOH, 1995 Max value from Calcasieu RI

#### Notes:

<sup>\*</sup> For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

#### **TABLE J-4-13** RME CONCENTRATION OF CHEMICAL IN FOOD ITEM (mg/kg) POND SEDIMENT

### Cfood = Csed x BSAF (or BSAF or BCF with food chain multiplier)

where:

Cfood = Csed = BSAF BCF = Chemical Concentration in food (mg/kg dry) Chemical Concentration in soil (mg/kg dry) Biota to Sediment Accumulation Factor (unitless)

Bioconcentration Factor (unitless)

Compound	RME Csed (mg/kg)	Sediment to Worm BSAF	Worm Refe Concentration	rence Sediment to Crab BSAF	Crab Concentration	Reference	Sediment to Fish BSAF	Fish Concentration	Reference
4,4'-DDT	1.57E-03	8.00E-01	1.26E-03 BSAF	DB 4.02E+00	) 6.31E-03	BSAF DB	5.80E-01	9.11E-04 W	SDOH, 1995
Nickel	2.06E+01	9.00E-01	1.85E+01 EPA,	1999	0.00E+00	)	5.40E-02	1.11E+00 M	ax value from Calcasieu RI

#### Notes:

<sup>\*</sup> For BAFs and BCFs for LPAHs and HPAHs, the most conservative value for the individual PAHs was used to estimated food concentrations.

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